

Supply and Delivery of Sulphur Trioxide (SO<sub>3</sub>) Plant Mechanical Spares “as and when required” for a period of five years at Kriel Power Station.



## NEC3 Supply Contract (SC3)

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

**and** [Insert at award stage]  
(Reg No. \_\_\_\_\_ )

**for** **Supply and Delivery of Sulphur Trioxide (SO<sub>3</sub>) Plant Mechanical Spares “as and when required” for a period of five years at Kriel Power Station.**

<b>Contents:</b>	<b>No of pages</b>
<b>Part C1 Agreements &amp; Contract Data</b>	<b>[•]</b>
<b>Part C2 Pricing Data</b>	<b>[•]</b>
<b>Part C3 Scope of Work</b>	<b>[•]</b>

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

## PART C1: AGREEMENTS & CONTRACT DATA

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<b>Contents:</b>	<b>No of pages</b>
<b>C1.1 Form of Offer and Acceptance</b>	<b>[•]</b>
[to be inserted from Returnable Documents at award stage]	
<b>C1.2a Contract Data provided by the <i>Purchaser</i></b>	<b>[•]</b>
<b>C1.2b Contract Data provided by the <i>Supplier</i></b>	<b>[•]</b>
[to be inserted from Returnable Documents at award stage]	
<b>C1.3 Proforma Guarantees</b>	<b>[•]</b>

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## C1.1 Form of Offer & Acceptance

### Offer

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

#### **Supply and Delivery of Sulphur Trioxide (SO<sub>3</sub>) Plant Mechanical Spares “as and when required” for a period of five years at Kriel Power Station**

The tenderer, identified in the Offer signature block, has

<i>either</i>	examined the documents listed in the Tender Data and addenda thereto as listed in the Returnable Schedules, and by submitting this Offer has accepted the Conditions of Tender.
<i>or</i>	examined the draft contract as listed in the Acceptance section and agreed to provide this Offer.

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 *Supplier* 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.

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

This Offer may be accepted by the Purchaser 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 *Supplier* 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

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

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## Acceptance

By signing this part of this Form of Offer and Acceptance, the Purchaser identified below accepts the tenderer's Offer. In consideration thereof, the Purchaser shall pay the Supplier 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 Purchaser 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: Goods Information including Supply Requirements

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 Purchaser 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 Purchaser's agent (whose details are given in the Contract Data) to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the *conditions of contract* identified in the Contract Data at, or just after, the date this agreement comes into effect. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

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

Signature(s)

Name(s)

Capacity

**for the  
Purchaser**

**Eskom Holdings SOC Ltd, Megawatt Park, Maxwell Drive, Sandton, Johannesburg,  
2199**

*(Insert name and address of organisation)*

Name &  
signature of  
witness

Date

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

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### Schedule of Deviations to be completed by the *Purchaser* 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 Purchaser 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 Purchaser 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 Purchaser 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 Purchaser

Signature \_\_\_\_\_

Name \_\_\_\_\_

Capacity \_\_\_\_\_

On behalf of \_\_\_\_\_  
(Insert name and address of organisation)

Name & signature of witness \_\_\_\_\_

Date \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Eskom Holdings SOC Ltd, Megawatt  
Park, Maxwell Drive, Sandton,  
Johannesburg, 2199**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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## C1.2 SC3 Contract Data

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

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

Clause	Statement	Data
1	<b>General</b>	
	The <i>conditions of contract</i> are the core clauses and the clauses for Options	
		<b>X1: Price adjustment for inflation</b>
		<b>X2 Changes in the law</b>
		<b>X7: Delay damages</b>
		<b>X17: Low performance damages</b>
		<b>Z: Additional conditions of contract</b>
	of the NEC3 Supply Contract (April 2013) <sup>1</sup>	(If the December 2009 edition is to be used delete April 2013 and replace by December 2013)
10.1	The <i>Purchaser</i> is (name):	<b>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</b>
	Address	<b>Registered office at Megawatt Park, Maxwell Drive, Sandton, Johannesburg</b>
	Tel No.	<b>011 871 3706</b>
	Fax No.	<b>Not applicable</b>
10.1	The <i>Supply Manager</i> is (name):	<b>Samuel Mophuting</b>
	Address	<b>Eskom Holdings SOC Limited Kriel Power Station Generation, Group, Cluster 3 Ogies/Bethal Road, Kriel</b>
	Tel	<b>014 763 8446</b>
	Fax	<b>Not applicable</b>
	e-mail	<a href="mailto:Mophutsp@eskom.co.za">Mophutsp@eskom.co.za</a>
11.2(13)	The <i>goods</i> are	<b>SO3 PLANT SPARES</b>
11.2(13)	The <i>services</i> are	<b>SO3 PLANT SPARES</b>

<sup>1</sup> Available from Engineering Contract Strategies Tel 011 803 3008 Fax 086 539 1902, [www.ecs.co.za](http://www.ecs.co.za).

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

- Any matter that has cost implication outside the agreed terms.
- Any matter that may cause delay in the delivery.
- Any quality related issues.
- Any matter that deviates from the specification.
- Any force majeure issue due such as protests, covid restrictions.
- Market price uncertainties and fluctuations.
- Purchaser delays in placing orders impacting delivery of long lead times.
- Delivery delays due to impact of supply chain Any matter that has cost. disruption locally or internationally.
- Interruption/delays due to pandemic.
- Modification required by the purchaser.

11.2(15)	The Goods Information is in	Part 3: Scope of Work and all documents and drawings to which it makes reference.		
11.2(15)	The Supply Requirements as part of the Goods Information is in	Annexure A to this Contract Data		
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	24 hours		
2	<b>The Supplier's main responsibilities</b>	Data required by this section of the core clauses is provided by the <i>Supplier</i> in Part 2 and terms in italics used in this section are identified elsewhere in this Contract Data.		
3	<b>Time</b>			
30.1	The <i>starting date</i> is.	[•]		
30.1	The <i>delivery date</i> of the <i>goods</i> and <i>services</i> is:	<b>goods and services</b>	<b>delivery date</b>	
		1	As per issued purchase order	As per agreed delivery schedule lead time per task order
30.2	The <i>Supplier</i> does not bring the <i>goods</i> to the Delivery Place more than one week before the Delivery Date.	[no data required]		
31.1	The <i>Supplier</i> is to submit a first programme for acceptance within	5 days after each task/Purchase order issuance and in line with agreed delivery lead time per spare.		
32.2	The <i>Supplier</i> submits revised programmes at intervals no longer than	1 week (If the is changes in the schedule <i>Supplier</i> will notify Eskom immediately		

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<b>4</b>	<b>Testing and defects</b>	
42	The <i>defects date</i> is	<b>52 weeks from date of delivery and acceptance by the <i>Purchaser</i></b>
43.2	The <i>defect correction period</i> is	<b>[•] weeks</b>
	except that the <i>defect correction period</i> for	<b>[•] is [•] weeks</b>
	and the <i>defect correction period</i> for	<b>[•] is [•] weeks</b>
42.2	The <i>defects access period</i> is	<b>1 day after notification</b>
	except that the <i>defect access period</i> for	<b>Purchaser’s fault is 2 days</b>
	and the <i>defect access period</i> for	<b>Not applicable</b>
<b>5</b>	<b>Payment</b>	
50.1	The <i>assessment interval</i> is	<b>between the 25th day of each successive month.</b>
51.1	The <i>currency of this contract</i> is the	<b>South African Rand</b>
51.2	The period within which payments are made is	<b>60 days.</b>
51.4	The <i>interest rate</i> is	<p>the publicly quoted prime rate of interest (calculated on a 365 day year) charged from time to time by the Standard Bank of South Africa Limited (as certified, in the event of any dispute, by any manager of such bank, whose appointment it shall not be necessary to prove) for amounts due in Rands and</p> <p>(ii) the LIBOR rate applicable at the time for amounts due in other currencies. LIBOR is the 6 month London Interbank Offered Rate quoted under the caption “Money Rates” in The Wall Street Journal for the applicable currency or if no rate is quoted for the currency in question then the rate for United States Dollars, and if no such rate appears in The Wall Street Journal then the rate as quoted by the Reuters Monitor Money Rates Service (or such service as may replace the Reuters Monitor Money Rates Service) on the due date for the payment in question, adjusted <i>mutatis mutandis</i> every 6 months thereafter and as certified, in the event of any dispute, by any manager employed in the foreign exchange department of The Standard Bank of South Africa Limited, whose appointment it shall not be necessary to prove.</p>
<b>6</b>	<b>Compensation events</b>	<b>There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data.</b>
<b>7</b>	<b>Title</b>	<b>There is no reference to Contract Data in this</b>



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section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data.

## 8 Risks, liabilities, indemnities and insurance

80.1	These are additional <i>Purchaser's</i> risks	1. Not applicable
88.1	The <i>Supplier's</i> liability to the <i>Purchaser</i> for indirect or consequential loss, including loss of profit, revenue and goodwill is limited to	R0.0 (zero Rand)
88.2	For any one event, the <i>Supplier's</i> liability to the <i>Purchaser</i> for loss of or damage to the <i>Purchaser's</i> property is limited to	(1) for the <i>Purchaser's</i> existing and surrounding property in the care, custody and control of the <i>Supplier</i> the amount of the deductible (first amount payable) relevant to the event and  (2) for all other existing <i>Purchaser's</i> property the applicable deductible as at contract date
88.3	The <i>Supplier's</i> liability for Defects due to his design which are not notified before the last <i>defects date</i> is limited to:	R[•] [This is a commercial decision, but consider using the total of the Prices. Delete this note after inserting a Rand amount]
88.4	The <i>Supplier's</i> total liability to the <i>Purchaser</i> , for all matters arising under or in connection with this contract, other than the excluded matters, is limited to	R[•] [This is a commercial decision, but consider using at least the total of the Prices. Delete this note after inserting the Rand amount]
88.5	The <i>end of liability date</i> is	[•] years after Delivery of the whole of the goods and services.

## 9 Termination and dispute resolution

94.1	The <i>Adjudicator</i> is	the person selected from the ICE-SA Division (or its successor body) of the South African Institution of Civil Engineering Panel of Adjudicators by the Party intending to refer a dispute to him. (see <a href="http://www.ice-sa.org.za">www.ice-sa.org.za</a> ). If the Parties do not agree on an Adjudicator the Adjudicator will be appointed by the Arbitration Foundation of Southern Africa (AFSA).
	Address	To be known once the dispute arises
	Tel No.	To be known once the dispute arises
	Fax No.	To be known once the dispute arises

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	e-mail	To be known once the dispute arises
94.2(3)	The <i>Adjudicator nominating body</i> is:	<b>the Chairman of ICE-SA, a Division of the South African Institution of Civil Engineering, or its successor body (See <a href="http://www.ice-sa.org.za">www.ice-sa.org.za</a>)</b>
94.4(2)	The <i>tribunal</i> is:	<b>arbitration</b>
94.4(5)	The <i>arbitration procedure</i> is	<b>the latest edition of Rules for the Conduct of Arbitrations published by The Association of Arbitrators (Southern Africa) or its successor body.</b>
94.4(5)	The place where arbitration is to be held is	<b>[•] South Africa</b>
	The person or organisation who will choose an arbitrator	
	- if the Parties cannot agree a choice or	
	- if the arbitration procedure does not state who selects an arbitrator, is	<b>the Chairman for the time being or his nominee of the Association of Arbitrators (Southern Africa) or its successor body.</b>

## 10 Data for Option clauses

X1	Price adjustment for inflation			
X1.1	The <i>base date</i> for indices is	[•].		
	The proportions used to calculate the Price Adjustment Factor are:	proportion	linked to index for	Index prepared by
		0.	[•]	[•]
		0.	[•]	[•]
		0.	[•]	[•]
		0.	[•]	[•]
		0.	[•]	[•]
		[•]	non-adjustable	
1.00				
X2	Changes in the law			
X2.1	A change in the law of	South Africa is a compensation event if it occurs after the Contract Date		
X7	Delay damages			
X7.1	Delay damages for Delivery are	Delivery of	amount per day	
		1. Assembled spares.	1.5 % of the task order value for delayed assembled spares per task order, as per agreed delivery schedule.	

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		<p><b>2. Loose spares</b></p> <p><b>3. Assembled and Loose spares.</b></p>	<p><b>1.5% of the task order value only delayed loose spares per task order, as per agreed delivery schedule.</b></p> <p><b>Delay damages are limited to 10% of the delayed spares per task</b></p>
<b>X17</b>	<b>Low performance damages</b>		
X17.1	The amounts for low performance damages are:	<p><b>amount</b></p> <p><b>1. 3% of the spare value will be deducted per day due to spares that failed quality.</b></p> <p><b>2. 3% deduction when a Supplier fails to correct the defect within 3 days.</b></p> <p><b>3. 100% of the task order value will be withheld.</b></p> <p><b>4. 100% of the task order value will be withheld.</b></p>	<p><b>performance level</b></p> <p><b>for picking up that spares failed quality inspection and took more than 3 days to correct the defect.</b></p> <p><b>for failing to adhere to the defect within 3 days.</b></p> <p><b>for failing to adhere to the agreed PQQ/ QCP and design requirements such as omitted or missed intervention points.</b></p> <p><b>for damaged goods due to the fault of the <i>Supplier</i>.</b></p>
<b>Z</b>	<p><b>The <i>additional conditions of contract</i> are</b></p> <p><b>Z1 to Z15 always apply for Eskom</b></p>		

## **Z1 Cession delegation and assignment**

- Z1.1 The *Supplier* does not cede, delegate or assign any of its rights or obligations to any person without the written consent of the *Purchaser*.
- Z1.2 Notwithstanding the above, the *Purchaser* may on written notice to the *Supplier* 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**

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- Z2.1 If the *Supplier* 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 *Purchaser* for the performance of this contract.
- Z2.2 Unless already notified to the *Purchaser*, the persons or organisations notify the *Supply Manager* within two weeks of the Contract Date of the key person who has the authority to bind the *Supplier* on their behalf.
- Z2.3 The *Supplier* does not alter the composition of the joint venture, consortium or other unincorporated grouping of two or more persons without the consent of the *Purchaser* having been given to the *Supplier* in writing.

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

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

### **Z4 Confidentiality**

- Z4.1 The *Supplier* 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 *Supplier*, enters the public domain or to information which was already in the possession of the *Supplier* at the time of disclosure (evidenced by written records in existence at that time). Should the *Supplier* disclose information to Others in terms of clause 23.1, the *Supplier* ensures that the provisions of this clause are complied with by the recipient.
- Z4.2 If the *Supplier* is uncertain about whether any such information is confidential, it is to be regarded as such until notified otherwise by the *Supply Manager*.
- Z4.3 In the event that the *Supplier* is, at any time, required by law to disclose any such information which is required to be kept confidential, the *Supplier*, to the extent permitted by law prior to disclosure, notifies the *Purchaser* 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 *Supplier* 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 goods or any portion thereof, in the course of Providing the Goods and Services and after Delivery, requires the prior written consent of the Supply Manager. All rights in and to all such images vests exclusively in the Purchaser.**
- Z4.5 The *Supplier* ensures that all his subcontractors abide by the undertakings in this clause.

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**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 *Supply 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 25.4**

- Z6.1 The *Supplier* undertakes to take all reasonable precautions to maintain the health and safety of persons in and about the provision of the *goods* and execution of the *services*.

Without limitation the *Supplier*:

- warrants that the total of the Prices as at the Contract Date includes a sufficient amount for proper compliance with 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 supply and
- undertakes, in and about the execution of the supply, to comply 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 *Supplier's* direction and control, likewise observe and comply with the foregoing.

- Z6.2 The *Supplier*, in and about the execution of the supply, 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 *Supplier'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 *Supply Manager* in terms of core clause 51.1, the *Supplier* provides the *Purchaser* with a tax invoice in accordance with the *Purchaser's* procedures stated in the Goods Information, showing the amount due for payment equal to that stated in the payment certificate.
- Z7.2 If the *Supplier* does not provide a tax invoice in the form and by the time required by this contract, the time by when the *Purchaser* 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 *Purchaser* in terms of core clause 51.2 is then calculated from the delayed date by when payment is to be made.
- Z7.3 The *Supplier* (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 *Purchaser's* VAT number 4740101508 on each invoice he submits for payment.

**Z8 Notifying compensation events**

- Z8.1 Delete from the last sentence in core clause 61.3 the words, “unless the event arises from the *Supply Manager* giving an instruction, changing an earlier decision or correcting an assumption”.

**Z9 Purchaser's limitation of liability**

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

Z9.2 The *Supplier's* entitlement under the indemnity in 83.1 is provided for in 60.1(12) and the *Purchaser's* liability under the indemnity is limited.

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

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

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

Z11.1 If the amount due for the *Supplier's* payment of delay damages reaches the limits stated in this Contract Data for Option X7, the *Purchaser* may terminate the *Supplier's* obligation to Provide the Goods and Services using the same procedures and payment on termination as those applied for reasons R1 to R15 or R18 stated in the Termination Table.

**Z12 Ethics**

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

**Affected Party** means, as the context requires, any party, irrespective of whether it is the *Supplier* 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 *Supplier*, 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.

Z12.1 A Committing Party may not take any Prohibited Action during the course of the procurement of this contract or in execution thereof.

Z12.2 The *Purchaser* may terminate the *Supplier's* obligation to Provide the Services if a Committing Party has taken such Prohibited Action and the *Supplier* did not take timely and appropriate action to prevent or remedy the situation, without limiting any other rights or remedies the

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*Purchaser* 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 *Purchaser* can terminate the *Supplier's* obligation to Provide the Services for this reason.

Z12.3 If the *Purchaser* terminates the *Supplier's* obligation to Provide the Services for this reason, the amounts due on termination are those intended in core clauses 92.1 and 92.2.

Z12.4 A Committing Party co-operates fully with any investigation pursuant to alleged Prohibited Action. Where the *Purchaser* does not have a contractual bond with the Committing Party, the *Supplier* ensures that the Committing Party co-operates fully with an investigation.

## **Z13Insurance**

### **Z 13.1 Replace core clause 84 with the following:**

<b>Insurance cover</b>	<b>84</b>	
	<b>84.1</b>	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.
	<b>84.2</b>	The <i>Supplier</i> provides the insurances stated in the Insurance Table A for events which are at the <i>Supplier's</i> risk from the <i>starting date</i> until the last <i>defects date</i> or a termination certificate has been issued.

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**INSURANCE TABLE A**

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

**Z 13.2 Replace core clause 87 with the following:**

**Insurance by  
the *Purchaser***

87

87.1 The *Purchaser* provides the insurances stated in the Insurance Table B

**INSURANCE TABLE B**

<b>Insurance against or name of policy</b>	<b>Minimum amount of cover or minimum of indemnity</b>
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	Per the insurance policy document



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Business Interruption	
Nuclear Material Damage Terrorism	Per the insurance policy document

## **Z14 Nuclear Liability**

- Z14.1 The *Purchaser* is the operator of the Koeberg Nuclear Power Station (KNPS), a nuclear installation, as designated by the National Nuclear Regulator of the Republic of South Africa, and is the holder of a nuclear licence in respect of the KNPS.
- Z14.2 The *Purchaser* is solely responsible for and indemnifies the *Supplier* or any other person against any and all liabilities which the *Supplier* 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 *Supplier* or any other person or the presence of the *Supplier* or that person or any property of the *Supplier* or such person at or in the KNPS or on the KNPS site, without the permission of the *Purchaser* or of a person acting on behalf of the *Purchaser*.
- Z14.3 Subject to clause Z14.4 below, the *Purchaser* 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 *Supplier* or any other person, or the presence of the *Supplier* or that person or any property of the *Supplier* or such person at or in the KNPS or on the KNPS site, without the permission of the *Purchaser* or of a person acting on behalf of the *Purchaser*.
- Z14.4 The *Purchaser* does not waive its rights provided for in section 30 (7) of Act 47 of 1999, or any replacement section dealing with the same subject matter.
- Z14.5 The protection afforded by the provisions hereof shall be in effect until the KNPS is decommissioned.

## **Z15 Asbestos**

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

<b>AAIA</b>	means approved asbestos inspection authority.
<b>ACM</b>	means asbestos containing materials.
<b>AL</b>	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.
<b>Ambient Air</b>	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.
<b>Compliance Monitoring</b>	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.
<b>OEL</b>	means occupational exposure limit.

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<b>Parallel Measurements</b>	means measurements performed in parallel, yet separately, to existing measurements to verify validity of results.
<b>Safe Levels</b>	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.
<b>Standard</b>	means the <i>Purchaser'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.
<b>SANAS</b>	means the South African National Accreditation System.
<b>TWA</b>	means the average exposure, within a given workplace, to airborne asbestos fibres, normalised to the baseline of a 4 hour continuous period, also applicable to short term exposures, i.e. 10-minute TWA.

- Z15.1 The *Purchaser* ensures that the Ambient Air in the area where the *Supplier* will Provide the Services conforms to the acceptable prescribed South African standard for asbestos, as per the regulations published in GNR 155 of 10 February 2002, under the Occupational Health and Safety Act, 1993 (Act 85 of 1993) (“Asbestos Regulations”). The OEL for asbestos is 0.2 regulated asbestos fibres per millilitre of air as a 4-hour TWA, averaged over any continuous period of four hours, and the short term exposure limit of 0.6 regulated asbestos fibres per millilitre of air as a 10-minute TWA, averaged over any 10 minutes, measured in accordance with HSG248 and monitored according to HSG173 and OESSM.
- Z15.2 Upon written request by the *Supplier*, the *Purchaser* 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 *Supplier* may perform Parallel Measurements and related control measures at the *Supplier's* expense. For the purposes of compliance the results generated from Parallel Measurements are evaluated only against South African statutory limits as detailed in clause Z15.1. Control measures conform to the requirements stipulated in the AAIA-approved asbestos work plan.
- Z15.3 The *Purchaser* manages asbestos and ACM according to the Standard.
- Z15.4 In the event that any asbestos is identified while Providing the Services, a risk assessment is conducted and if so required, with reference to possible exposure to an airborne concentration of above the AL for asbestos, immediate control measures are implemented and relevant air monitoring conducted in order to declare the area safe.
- Z15.5 The *Supplier's* personnel are entitled to stop working and leave the contaminated area forthwith until such time that the area of concern is declared safe by either Compliance Monitoring or an AAIA approved control measure intervention, for example, per the emergency asbestos work plan, if applicable.
- Z15.6 The *Supplier* 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.
- Z15.7 Any removal and disposal of asbestos, asbestos containing materials and waste, is done by a registered asbestos contractor, instructed by the *Purchaser* at the *Purchaser's* expense, and conducted in line with South African legislation.

## **Annexure A: Supply Requirements**

**CONTRACT TITLE:** Supply and Delivery of Sulphur Trioxide (SO<sub>3</sub>) Plant Mechanical Spares “as and when required” for a period of five years at Kriel Power Station

*[Notes: The example given in the NEC3 Supply Contract Guidance Notes pages 15 to 20 inclusive is based on Incoterms 2000. However users will probably wish to use Incoterms 2010 which the details below are based on. Users may need to adjust the information to comply with actual requirements. First decide whether Incoterms will be used or not, then delete the arrangement below which does not apply and delete these notes]*

## The Supply Requirements for this contract are based on the use of INCOTERMS:

The *Supplier* supplies the *goods* in accordance with INCOTERMS 2010<sup>2</sup> as follows:

*[Select the group and then term within the group which applies and state the applicable delivery place. Delete all the other groups and this note]*

Group	Category	Term	Delivery Place
E	departure	EXW	
F	main carriage unpaid	FCA, FAS, FOB	
C	main carriage paid	CFR, CIF, CPT, CIP	
D	arrival	DAT, DAP, DDP	

The Parties obligations described in Incoterms for the category and term selected are now incorporated into this contract as part of the Supply Requirements and hence the Goods Information.

The obligations of seller and buyer for the selected Incoterm determine each Party's costs, risks and insurance requirements incidental to the supply and transport of the *goods* from *Supplier* to *Purchaser*.

For each of the thirteen terms, Incoterms set out obligations of the seller (the *Supplier*) in ten paragraphs identified as A1 to A10 and the corresponding obligations of the buyer (the *Purchaser*) in paragraphs B1 to B10. These obligations cover the following subjects:

A	The <i>Supplier's</i> obligations	B	The <i>Purchaser's</i> obligations
A1	Provision of goods in conformity with contract	B1	Payment of the price
A2	Licences, authorisations and formalities	B2	Licences, authorisations and formalities
A3	Contracts of carriage and insurance	B3	Contracts of carriage and insurance
A4	Delivery	B4	Taking delivery
A5	Transfer of risks	B5	Transfer of risks
A6	Division of costs	B6	Division of costs
A7	Notice to the buyer	B7	Notice to the seller
A8	Proof of delivery, transport document or equivalent electronic message	B8	Proof of delivery, transport document or equivalent electronic message
A9	Checking - packing - marking	B9	Inspection of goods
A10	Other obligations	B10	Other obligations

*[Should there be a need to amplify any of the published obligations listed above for the chosen INCOTERM, add them here.]*

All other information NOT pertinent to the above is given in the balance of the Goods Information

<sup>2</sup> International Chamber of Commerce, Incoterms 2010, Paris, January 2011

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**The Supply Requirements for this contract are as follows:**

[Use these when INCOTERMS do not apply].

<b>1. The requirements for the supply are</b>	[State the constraints on how the <i>Supplier</i> manufactures, prototypes, tests and stores the <i>goods</i> including order and timing]	
<b>2. The requirements for transport are</b>	[State the extent to which the <i>Supplier</i> transports the <i>goods</i> and the mode of transport]	
<b>3. The delivery place is</b>	[State the location where the <i>goods</i> are to be placed by the <i>Supplier</i> , such as whether it is a dispatch department at the <i>Supplier's</i> premises, the <i>Purchaser</i> is to collect or other location the <i>Purchaser</i> may require. If the delivery place for the <i>services</i> is different to the <i>goods</i> state it here]	
<b>4. Actions of the Parties during supply</b>	<b>Action</b>	<b>Party which does it</b>
	Giving notice of Delivery	
	Checking packing and marking before dispatch	
	Contracting for transport	
	Pay costs of transport	
	Arrange access to delivery place	
	Loading the <i>goods</i>	
	Unloading the <i>goods</i>	
<b>For international procurement</b>	Undertake export requirements	
	Undertake import requirements	
<b>5. Information to be provided by the Supplier</b>	<b>Title of document</b>	
	Packing lists for cases and their contents	
	Copy of invoice for the <i>goods</i>	
	Delivery Note	
	Test results and maintenance manuals	
<b>For international procurement</b>	Licences, authorisations and other formalities associated with export of the <i>goods</i>	
	Air Waybill or Bill of Lading with associated landing, delivery and forwarding order	
	The Bill of Entry endorsed by the importation authority	
	Customs work sheets, showing tax, duties and surcharges which the law of the country into which the <i>goods</i> are being imported requires the importer to pay	
	Invoice from the importation clearing agent showing airline fees, landing charges, wharfage and dock dues as applicable	
	Specify other import documents required by authorised officials.	

All other information NOT pertinent to the above is given in the balance of the Goods Information

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## C1.2 Contract Data

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

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

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

**Notes to a tendering supplier:**

1. Please read both the NEC3 Supply Contract (SC3)<sup>1</sup> and the relevant parts of its Guidance Notes (SC3-GN)<sup>2</sup> in order to understand the implications of this Data which the tenderer is required to complete.
2. The number of the clause which requires the data is shown in the left hand column for each statement however other clauses may also use the same data
3. Where a form field like this [ ] appears, data is required to be inserted relevant to the option selected. Click on the form field **once** and type in the data. Otherwise complete by hand and in ink.

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

Clause	Statement	Data				
10.1	The <i>Supplier</i> is (Name):  Address  Tel No.  Fax No.					
11.2(8)	The Goods Information for the <i>Supplier's</i> design is in:					
11.2(11)	The tendered total of the Prices is	R , (in words)				
11.2(12)	The <i>price schedule</i> is in:					
11.2(14)	The following matters will be included in the Risk Register					
25.2	The restrictions to access for the <i>Supply Manager</i> and Others to work being done for this contract are					
30.1	The <i>delivery date</i> of the <i>goods</i> and <i>services</i> is:	<table><tr><th><i>goods and services</i></th><th><i>delivery date</i></th></tr><tr><td>1 SO3 plant spares</td><td>As per agreed lead time</td></tr></table>	<i>goods and services</i>	<i>delivery date</i>	1 SO3 plant spares	As per agreed lead time
<i>goods and services</i>	<i>delivery date</i>					
1 SO3 plant spares	As per agreed lead time					
31.1	The programme identified in the Contract Data is contained in:					
63.2	The <i>percentage for overheads and profit</i> added to the Defined Cost is	%				

<sup>1</sup> Either April 2013 or December 2009 Edition as stated by *Purchaser* in Contract Data part 1.

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



PART 2: PRICING DATA

NEC3 Supply Contract

Document reference	Title	No of pages
C2.1	Pricing assumptions	2
C2.2	The <i>price schedule</i>	[•]



## C2.1 Pricing assumptions

### 1. How goods and services are priced and assessed for payment

Clause 11 in NEC3 Supply Contract, (SC3) core clauses states:

<b>Identified and defined terms</b>	11	
	11.2	(11) The Prices are the amounts stated in the price column of the Price Schedule. Where a quantity is stated for an item in the Price Schedule, the Price is calculated by multiplying the quantity by the rate.
		(12) The Price Schedule is the <i>price schedule</i> unless later changed in accordance with this contract.
<b>Assessing the amount due</b>	50.2	The amount due is
		<ul style="list-style-type: none"> <li>the Price for each lump sum item in the Price Schedule which the <i>Supplier</i> has completed,</li> <li>where a quantity is stated for an item in the Price Schedule, an amount calculated by multiplying the quantity which the <i>Supplier</i> has completed by the rate,</li> <li>plus other amounts to be paid to the <i>Supplier</i>,</li> <li>less amounts to be paid by or retained from the <i>Supplier</i>.</li> </ul> <p>Any tax which the law requires the <i>Purchaser</i> to pay to the <i>Supplier</i> is included in the amount due.</p>

This confirms that the Supply Contract is a priced contract where the Prices are derived from a list of items of *goods* and *services* which can be priced as lump sums or as expected quantities of *goods* and *services* multiplied by a rate, or a mix of both.

### 2. Function of the Price Schedule

Clause 53.1 states: “Information in the Price Schedule is not Goods Information”. This confirms that instructions to do work or how it is to be done are not included in the Price Schedule but in the Goods Information. This is further confirmed by Clause 20.1 which states, “The *Supplier* Provides the Goods and Services in accordance with the Goods Information”. Hence the *Supplier* does **not** Provide the Goods and Services in accordance with the Price Schedule. The Price Schedule is only a pricing document.

### 3. Preparing the *price schedule*

Items in the *price schedule* may have been inserted by the *Purchaser* and the tendering supplier should insert any additional items which he considers necessary. Whichever party provides the items in the *price schedule* the total of the Prices is assumed to be fully inclusive of everything necessary to Provide the Goods and Services as described at the time of entering into this contract.

It will be assumed that the tendering supplier has

- Read Pages 8, 11, 12 and Appendix 5 of the SC3 Guidance Notes before preparing the *price schedule*;
- Included in his Prices and rates for correction of Defects (core clause 43.1) as there is no compensation event for this unless the Defect is due to a *Supplier's* risk;

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- Spread the cost of doing work he chooses not to list as separate items in the *price schedule* across other Prices and rates in order to fulfil the obligation to Provide the Goods and Services for the tendered total of the Prices;
- Understood that there is no adjustment to lump sum prices in the *price schedule* if the amount, or quantity, of work within that lump sum item later turns out to be different to that which the *Supplier* estimated at time of tender. The only basis for a change to the Prices is as a result of a compensation event per clause 60.1;
- Understood that the *Supplier* does not have to allow in his Prices and rates for matters that may arise as a result of a compensation event.

### 3.1. Format of the *price schedule*

Entries in the first four columns in the *price schedule* in section C2.2 are made either by the *Purchaser* or the tendering supplier.

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

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

If the *Supplier* is to be paid an amount for an item proportional to the length of time for which the *goods* and *services* are provided, a unit of time is stated in the Unit column and the length of time (as a quantity of the stated units of time) is stated in the Quantity column.

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## C2.2 the price schedule

ITEM NO	STOCK NUMBER	UNIT OF MEASURE	SHORT DESCRIPTION	LONG DESCRIPTION	QUANTITY REQUIRED	Price	Total
1	608942	EA	GASKET PC:ID 585 X OD 625 MM;THK 5 MM	GASKET, PRE CUT: DIMENSIONS: ID 585 X OD 625 MM; THICKNESS: 5 MM; TYPE: INSULATOR; MATERIAL: FIBER; SHAPE: ROUND; TEMPERATURE RATING: 0-1100 DEG C; ISOPLAN 1100; LYTHERM; DATA SHEET REQUIRED FOR QUALITY AND CERTIFICATION PURPOSES; BURNER OUTLET FLANGE	80		
2	608938	EA	GASKET, PRE CUT: DIMENSIONS: ID 330 X OD 370 MM; THICKNESS: 5MM; TYPE: ISOLATION; MATERIAL: FIBRE CERAMIC; SHAPE: ROUND;	GASKET, PRE CUT: DIMENSIONS: ID 330 X OD 370 MM; THICKNESS: 5 MM; TYPE: ISOLATION; MATERIAL: CERAMIC FIBER; SHAPE: ROUND; TEMPERATURE RATING: 0-1100 DEG C; ISOPLAN 1100; LYTHERM; BURNER OUTLET FLANGE NO: 2; DATA SHEET REQUIRED FOR QUALITY AND CERTIFICATION PURPOSES	120		
3	608939	EA	GASKET PC:ID 485 X OD 525 MM;THK 5 MM	GASKET, PRE CUT: DIMENSIONS: ID 485 X OD 525 MM; THICKNESS: 5 MM; TYPE: ISOLATION; MATERIAL: CERAMIC FIBER; SHAPE: ROUND; TEMPERATURE RATING: 0-1100 DEG C; ISOPLAN 1100; LYTHERM; DATA SHEET REQUIRED FOR QUALITY AND CERTIFICATION PURPOSES; BURNER LANCE FLANGE	80		
4	608944	EA	GASKET PC:ID 1.475 X OD 1.515 M;THK 5 MM	GASKET, PRE CUT: DIMENSIONS: ID 1.475 X OD 1.515 M; THICKNESS: 5 MM; TYPE: INSULATOR; MATERIAL: CERAMIC FIBER; SHAPE: ROUND; TEMPERATURE RATING: 0-1100 DEG C; ISOPLAN 1100; LYTHERM; DATA SHEET REQUIRED FOR QUALITY AND CERTIFICATION PURPOSES; GASKET IS 5 TIMES SEGMENTED; BURNER LID GASKET	80		
5	608943		GASKET PC:ID 330 X OD 370 MM;THK 5 MM	GASKET, PRE CUT: DIMENSIONS: ID 330 X OD 370 MM; THICKNESS: 5 MM; TYPE: INSULATOR; MATERIAL: CERAMIC FIBER; SHAPE: ROUND; TEMPERATURE RATING: 0-1100 DEG C; ISOPLAN 1100; LYTHERM; DATA SHEET REQUIRED FOR QUALITY AND CERTIFICATION PURPOSES; BURNER INLET FLANGE	80		

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		EA					
6	608941	EA	GASKET PC:ID 91 X OD 183 MM;THK 5 MM;190	GASKET, PRE CUT: DIMENSIONS: ID 91 X OD 183 MM; THICKNESS: 5 MM; TYPE: INSULATOR; MATERIAL: CERAMIC FIBER; SHAPE: ROUND; TEMPERATURE RATING: 0-1100 DEG C; NOMINAL FLANGE SIZE: 190 MM; ISOPLAN 1100; LYTHERM; DATA SHEET REQUIRED FOR QUALITY AND CERTIFICATION PURPOSES; FOR FLEXIBLE HOSES	300		
7	621332	EA	VALVE GLB:1/2 IN;32.8 MPA;80 MM;MANUAL	VALVE, GLOBE: VALVE SIZE: 1/2 IN; DESIGN PRESSURE: 32.8 MPA; DESIGN TEMPERATURE: 427 DEG C AT 76 BAR; FACE TO FACE LENGTH: 80 MM; OPERATED: MANUAL; CONNECTION: BW; BODY MATERIAL: ASTM A105; TRIM: F6/STELLITED; GRADE: ASTM A105; STEM DESIGN: YOKE; STYLE: T PATTERN; APPLICATION: CONDENSATE DRAIN; TYPE: FLOW; DESIGN RATING: 800 LB; TEMPERATURE RATING: 427 DEG C	130		
8	621237	EA	BASKET STRNR:WD 10 X HT 11 IN;SS GR 316	BASKET, STRAINER: DIMENSIONS: WD 10 X HT 11 IN; MATERIAL: SS GR 316; PERFORATION SIZE: 1/16 IN; TYPE: DUPLEX; MEDIA FOR WHICH DESIGNED: LIQUID SULPHUR; SHAPE: RECTANGULAR; APPLICATION: TRANSPORTATION AND FILTERING MOLTEN LIQUID; FLANGE: CF8M; STYLE: SSDXF; CLASS: 150LB; SIZE: 1IN; SEALS: VITON; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	70		
9	56531	EA	HOSE ASSY, NON MTL;65 MM, LG 1000 MM	HOSE ASSEMBLY, NON METALLIC: HOSE SIZE: 65 MM; LENGTH: 1.1 M; CONNECTION 1: FLANGE FLOATING (4) HOLES DIA 18, PCD 145 MM; CONNECTION 2: FLANGE FLOATING (4) HOLES DIA 18, PCD 145 MM; CORE MATERIAL: STAINLESS STEEL; COVER MATERIAL: SS BRAIDED; TYPE: FLEXIBLE CORRUGATED; FOR SO3 PLANT; SIZE 76MM OD	360		

CONTRACT TITLE: Supply and Delivery of Sulphur Trioxide (SO<sub>3</sub>) Plant Mechanical Spares "as and when required" for a period of five years at Kriel Power Station.

10	157226	EA	CATALYST: VANADIUM PENTOXIDE XLP-110	CATALYST: TYPE: VANADIUM PENTOXIDE XLP-110; FORM: RIBBED RING; CONTAINER: DRUM 200 L; FOR USE IN SO <sub>3</sub> SYSTEM CONVERTER; SIZE: 12 MM; REQUIRED A MATERIAL SAFETY DATA SHEET WITH EVERY DELIVERY; SULFURIC ACID CATALIST	200		
11	69159	EA	BALL:SO3 CONVERTER;20 MM;CER	BALL: TYPE: SO <sub>3</sub> CONVERTER; DIAMETER: 20 MM; MATERIAL: CERAMIC; THE ITEM MUST BE SUPPLIED IN A SEALED 210L STL DRUM; ONE DRUM = ONE EACH	200		
12	750486	EA	ORING SET:ROUND;2;VIT ON	O RING SET: TYPE: ROUND; APPLICATION: SEALING OF STRAINER COVERS; QUANTITY: 2; MATERIAL: VITON; SIZE RANGE: OD 60 X ID 52 X THK 4 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	200		
13	750484	EA	ORING SET:ROUND;2;VIT ON	O RING SET: TYPE: ROUND; APPLICATION: SEALING OF STRAINER COVERS; QUANTITY: 2; MATERIAL: VITON; SIZE RANGE: OD 90 X ID 80 X THK 5 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	280		
14	750483	EA	ORING SET:ROUND;2;VIT ON	O RING SET: TYPE: ROUND; APPLICATION: SEALING OF STRAINER COVERS; QUANTITY: 2; MATERIAL: VITON; SIZE RANGE: OD 58 X ID 48 X THK 5 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	280		
15	750485	EA	ORINGSET: ROUND;2;VITON	O RING SET: TYPE: ROUND; APPLICATION: SEALING OF STRAINER COVERS; QUANTITY: 2; MATERIAL: VITON; SIZE RANGE: OD 20 X ID 16 X THK 2 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	280		
16	210360		SHEET GSKT:THK 1.5 MM;LG 2 M;WD	SHEET, GASKET: THICKNESS: 1.5 MM; LENGTH: 2 M; WIDTH: 1.5 M;	360		

CONTRACT TITLE: Supply and Delivery of Sulphur Trioxide (SO<sub>3</sub>) Plant Mechanical Spares "as and when required" for a period of five years at Kriel Power Station.

		EA	1.5 M	MATERIAL: NBR/WOOL MINERAL FIBER; SUPPL P/N: WEBA6000; SUPPLIER NOTE ONLY BURGMANN BRAND ACCEPTABLE, STEAM APPLICATION: PEAK TEMPERATURE: 440 DEG C, CONTINUOUS TEMPERATURE: 350 DEG C, TEMPERATURE WITH STEAM: 300 DEG C, PRESSURE: 120 BAR/1740 PSI			
17	210362	EA	SHEET GSKT:THK 3 MM;LG 2 M;WD 1.5 M	SHEET, GASKET: THICKNESS: 3 MM; LENGTH: 2 M; WIDTH: 1.5 M; MATERIAL: NBR/WOOL MINERAL FIBER; SUPPL P/N: WEBA6000; SUPPLIER NOTE ONLY BURGMANN BRAND ACCEPTABLE, STEAM APPLICATION: PEAK TEMPERATURE: 440 DEG C, CONTINUOUS TEMPERATURE: 350 DEG C, TEMPERATURE WITH STEAM: 300 DEG C, PRESSURE: 120 BAR/1740 PSI.	360		
18	189955	EA	GREASE INDSTRL: BEARING;55 DEG C;125/WA2	GREASE, INDUSTRIAL: TYPE: BEARING; TEMPERATURE RATING: 55 DEG C; VISCOSITY RATING: 125/WA2; COLOR: GREEN; CONTAINER: 125 ML; SUPPL P/N: LAGD125/WA2; FOR USE ON MILL SEAL AIR AND SO3 FAN BEARINGS, TO BE SUPPLY IN CANISTERS WIT GAS ADJUSTER ON TOP.	15000		
19	718046	EA	STRAINER:DUP;W D10 X HT11 IN;149 MM;100	STRAINER: TYPE: DUPLEX; DIMENSIONS: WD10 X HT11 IN; MATERIAL: STAINLESS STEEL 316; FILTERING RETENTION: 149 MM; MESH: 100; MICRON: 149 MM; SPECIFICATION: SSDPXF	80		
20	73541	EA	TRAP STEAM:BW 25 MM;110 BAR;13CRMO44	TRAP, STEAM: CONNECTION: BW 25 MM; PRESSURE RATING: 110 BAR; MATERIAL: 13CRMO44; SUPPLIER NOTE: THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED, BSV116/BK29/PN160; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	420		
21	59004		TRAP STEAM:BELLOWS AIR/WATER;BSP 1/2 IN	TRAP, STEAM: TYPE: BELLOWS AIR/WATER; CONNECTION: BSP 1/2 IN; PRESSURE RATING: 17 BAR; MATERIAL: PC; SUPPL P/N: 4539D;	420		

CONTRACT TITLE: Supply and Delivery of Sulphur Trioxide (SO<sub>3</sub>) Plant Mechanical Spares "as and when required" for a period of five years at Kriel Power Station.

		EA		SCHRABER, FOR DRY DUST BLOWPOTS, TEMPERATURE RANGE -10 DEG C TO +50 DEG C; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).			
22	73690	EA	VALVE GATE:1/2 IN;WEDGE;THD;80 MM;MANUAL	VALVE, GATE: VALVE SIZE: 1/2 IN; TYPE: WEDGE; CONNECTION: THD; FACE TO FACE LENGTH: 80 MM; BODY MATERIAL: FST ASTM A105; TRIM: DISC/SEAT F6-HF; STEM F6; OPERATED: MANUAL; STEM DESIGN: RISING SPINDLE; STYLE: BOLTED BONNET; TEMPERATURE RATING: 0-850 DEG F; DESIGN RATING: 800 LB; CAT NO: L813; OMB; FOR ASH HOPPERS.	200		
23	74272	EA	VALVE GLB:50 MM;AIR;FLANGE;C S;300 LB	VALVE, GLOBE: VALVE SIZE: 50 MM; OPERATED: AIR; CONNECTION: FLANGE; BODY MATERIAL: CS; STEM DESIGN: RISING SPINDLE; STYLE: BOLTED BONNET; DESIGN RATING: 300 LB; REFERENCE NO: 667ES; 20X6 MM; FISHER	50		
24	750578	EA	BOLT ASSY:FULLY THREADED M20 X 120MM;16	BOLT, ASSEMBLY: TYPE: FULLY THREADED M20 X 120MM; NOMINAL DIAMETER: 16 MM; LENGTH: 75 MM; HEAD: 24 MM; GRADE: 8.8; MATERIAL: STAINLESS STEEL; THREAD LENGTH: 65 MM; THREAD: RIGHT HAND; NUT QUANTITY: 1; NUT MATERIAL: STAINLESS STEEL; RIGHT HAND THREAD DIRECTION, PITCH SIZE X 2.5 MM	600		
25	750581	EA	BOLT ASSY:THD;20 MM;LG 75 MM;30 MM;8.8;1	BOLT, ASSEMBLY: TYPE: THREADED; NOMINAL DIAMETER: 20 MM; LENGTH: 75 MM; HEAD: 30 MM; GRADE: 8.8; MATERIAL: STAINLESS STEEL; THREAD LENGTH: 50 MM; THREAD: RIGHT HAND; NUT QUANTITY: 1; NUT MATERIAL: STAINLESS STEEL; NUT GRADE: 8.8; RIGH HAND THREAD DIRECTION,	600		
26	751406		BOLT ASSY:STUD;16 MM;LG 150 MM;HEXAGON;2	BOLT, ASSEMBLY: TYPE: STUD; NOMINAL DIAMETER: 16 MM; LENGTH: 150 MM; HEAD: HEXAGON; GRADE: 8.8; MATERIAL: STAINLESS STEEL,316; THREAD LENGTH: 150 MM; THREAD: HEXAGON; NUT QUANTITY: 2; NUT MATERIAL: STAINLESS STEEL ,304; THREAD 1 LENGTH X 30 MM, THREAD 2	600		

CONTRACT TITLE: Supply and Delivery of Sulphur Trioxide (SO<sub>3</sub>) Plant Mechanical Spares "as and when required" for a period of five years at Kriel Power Station.

		EA		LENGTH X 30 MM AND SHANK LENGTH X 90MM; THREAD DIAMETER X 16 MM AND PITCH 2.5 MM; STUDS ARE THREADED ON BOTH SIDES WITH A SHANK IN THE MIDDLE			
27	751405	EA	BOLT ASSY:STUD;16 MM;LG 140 MM;HEXAGON;2	BOLT, ASSEMBLY: TYPE: STUD; NOMINAL DIAMETER: 16 MM; LENGTH: 140 MM; HEAD: HEXAGON; GRADE: 8.8; MATERIAL: STAINLESS STEEL,316; THREAD LENGTH: 140 MM; THREAD: RIGHT HAND; NUT QUANTITY: 2; NUT MATERIAL: STAINLESS STEEL ,304; THREAD 1 LENGTH X 30 MM, THREAD 2 LENGTH X 30 MM AND SHANK LENGTH X 80MM; THREAD DIAMETER X 16 MM AND PITCH X 2.5 MM; STUDS ARE THREADED BOTH SIDES WITH A SHANK IN THE MIDDLE	600		
28	751404	EA	BOLT ASSY:STUD;20 MM;LG 145 MM;HEXAGON;2	BOLT, ASSEMBLY: TYPE: STUD; NOMINAL DIAMETER: 20 MM; LENGTH: 145 MM; HEAD: HEXAGON; GRADE: 8.8; MATERIAL: STAINLESS STEEL,316; THREAD LENGTH: 145 MM; THREAD: RIGHT HAND; NUT QUANTITY: 2; NUT MATERIAL: STAINLESS STEEL ,304; THREAD 1 LENGTH X 30 MM, THREAD 2 LENGTH X 30 MM AND SHANK LENGTH X 85 MM; THREAD DIAMETER X 20 MM AND PITCH X 2.5 MM; STUDS ARE THREADED ON BOTH SIDES WITH A SHANK IN THE MIDDLE.	600		
29	58802	EA	TRAP STEAM:FLOAT AIR;BSP 1/2 IN;4.5 BAR	TRAP, STEAM: TYPE: FLOAT AIR; CONNECTION: BSP 1/2 IN; PRESSURE RATING: 4.5 BAR; MATERIAL: STL; SUPPL P/N: FT14TV4-5; COMPLETE, TMO:- 156 DEG CELSIUS,(TV = THERMOSTATIC AIR VENT), FOR S03; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	160		
	751400		ELBOW:UNION;8 MM;TUBE;SS;90 DEG	ELBOW: TYPE: UNION; SIZE: 8 MM; CONNECTION: TUBE; MATERIAL: STAINLESS STEEL; DEGREE: 90 DEG; LENGTH X 29.4 MM, NUT X 15.87 MM; TUBE TO TUBE CONNECTION	500		



CONTRACT TITLE: Supply and Delivery of Sulphur Trioxide (SO<sub>3</sub>) Plant Mechanical Spares "as and when required" for a period of five years at Kriel Power Station.

30		EA					
31	750579	EA	UNION: PIPE;8 MM; THD;SS	UNION: TYPE: PIPE; SIZE: 8 MM; CONNECTION: THREADED; MATERIAL: STAINLESS STEEL; 1/2 INCH THREADED PITCH AND 20 MM THREADED LENGTH	500		
32	750488	EA	INSERT TUBE:OD 14.28 MM;ID 8 MM	INSERT, TUBE: OUTSIDE DIAMETER: 14.28 MM; INSIDE DIAMETER: 8 MM; MATERIAL: STAINLESS STEEL, 316; UNION TEE, LENGTH X 30 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	500		
33	751401	EA	CONNECTOR:NPT THREAD;DIA9.53 X LG39.5 MM.	CONNECTOR: TYPE: NPT THREAD; DIMENSIONS: DIA9.53 X LG39.5 MM; MATERIAL: STAINLESS STEEL; TUBE TO MALE CONNECTOR	500		
34	751402	EA	CONNECTOR:TAPERED THREADED;SS	CONNECTOR: TYPE: TAPERED THREADED; DIMENSIONS: DIA8 X LG 41 XTHK 1 MM; MATERIAL: STAINLESS STEEL; TUBE TO MALE CONNECTOR	500		
35	750491	EA	INSERT TUBE:OD 12 MM;ID 8 MM.	INSERT, TUBE: OUTSIDE DIAMETER: 12 MM; INSIDE DIAMETER: 8 MM; MATERIAL: STAINLESS STEEL, 316; FRONT FERRULE, 8 MM PIPE FITTING CONNECTION; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	200		
36	750487	EA	INSERT TUBE:OD 12 MM;ID 12 MM	INSERT, TUBE: OUTSIDE DIAMETER: 12 MM; INSIDE DIAMETER: 12 MM; MATERIAL: STAINLESS STEEL, 316; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	200		
37	750489	EA	INSERT TUBE:OD 8 MM;ID 6 MM	INSERT, TUBE: OUTSIDE DIAMETER: 8 MM; INSIDE DIAMETER: 6 MM; MATERIAL: STAINLESS STEEL, 316; LENGTH X 6.1 M; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	200		

CONTRACT TITLE: Supply and Delivery of Sulphur Trioxide (SO<sub>3</sub>) Plant Mechanical Spares "as and when required" for a period of five years at Kriel Power Station.

38	753602	EA	ELBOW:ASTM A234 WPD;21.3 MM;BUTT WELD;90	ELBOW: TYPE: ASTM A234 WPD; SIZE: 21.3 MM; CONNECTION: BUTT WELD; MATERIAL: CARBON STEEL; DEGREE: 90 DEG; RADIUS: 38.1 MM; SCHEDULE: 40; GRADE: ANSI B16.9; SPECIFICATION: ANSI B16.9; BUTT WELD FITTING, WALL THICKNESS X 2.7 MM AND ID X 15.88	300		
39	750580	EA	ELBOW:ASTM A234 WPD;21.3 MM;BUTT WELD;90	ELBOW: TYPE: ASTM A234 WPD; SIZE: 21.3 MM; CONNECTION: BUTT WELD; MATERIAL: CARBON STEEL; DEGREE: 90 DEG; RADIUS: 38.1 MM; SCHEDULE: 80; GRADE: ANSI B16.9; SPECIFICATION: ANSI B16.9; BUTT WELD FITTING, WALL THICKNESS X 3.73 MM AND ID X 13.9 MM	300		
40	63690	EA	GREASE: BEARING; 20 DEG C;CAN 1 KG	GREASE: TYPE: BEARING; TEMPERATURE RATING: 20 DEG C; CONTAINER: CAN 1 KG; REFERENCE NO: LGHT3; REQUIRE A MATERIAL SAFETY DATA SHEET WITH EVERY DELIVERY	18000		
41	69158	EA	TUBE LNCE:64053001L0 0006	TUBE, LANCE: DRAWING NO: D64053001 L00006 REV 1; REFERENCE NO: 64053001L00006; INJECTION FOR S03 PLANT INJECTION TO AIR HEATER OUTLET; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	144		
42	649006	EA	VALVE GLB:1 IN;103 BAR;-18 TO 232 DEG C	VALVE, GLOBE: VALVE SIZE: 1 IN; DESIGN PRESSURE: 103 BAR; DESIGN TEMPERATURE: -18 TO 232 DEG C; FACE TO FACE LENGTH: 197 MM; OPERATED: ACTUATOR PNEUMATIC; CONNECTION: FLANGE RF; BODY MATERIAL: STL GR WCC; TRIM: BOLTED BODY/BONNET; PLUG SS 416; RING RETAINER CB7CU- 1SST; SEAT RING SS 541600; STEM 3/8 IN SS 316; GRADE: WCC; CL 300; SOFTGOODS: PTFE; STYLE: SINGLE PORT; APPLICATION: S03 PLANT COMMON STEAM SUPPLY; SPECIFICATION: NPS1-EZ; DESIGN RATING: CL 300; REFERENCE NO: EZ-6-80155; BONNET STYLE PLAIN; GASKETS NICKEL ALLOY N06600; STUDS SA-193-B7/ NUTS NCF2; FISHER CONTROL VALVE, ACTUATOR SPRING/DIAPHRAGM, ACTUATOR 667134I; SEAT METAL	18		
43	41552	EA	FILTER AIR: PRIMARY INLET; GLASS FIBER	FILTER, AIR: TYPE: PRIMARY INLET; DIMENSIONS: WD 290 X LG 590 X DP 360 MM; MATERIAL: GLASS FIBER; AP	300		

CONTRACT TITLE: Supply and Delivery of Sulphur Trioxide (SO<sub>3</sub>) Plant Mechanical Spares "as and when required" for a period of five years at Kriel Power Station.

44	161400	EA	GREASE: BEARING;20 DEG C; CAN 1 KG	GREASE: TYPE: BEARING; TEMPERATURE RATING: 20 DEG C; CONTAINER: CAN 1 KG; REFERENCE NO: LGHT3; REQUIRE A MATERIAL SAFETY DATA SHEET WITH EVERY DELIVERY	12000		
45	152059	EA	GLASS SGHT: DIA 100 X THK 10 MM;GLASS;500	GLASS, SIGHT: DIMENSIONS: DIA 100 X THK 10 MM; MATERIAL: GLASS; COLOR: TRANSPARENT; RATING: 500 DEG C; QUARTS, QUALITY: HERASIL3, POLISHED ON BOTH SIDES, FOR USE ON SULPHUR FURNACE	48		

The total of the Prices

ESKOM HOLDINGS SOC Ltd

CONTRACT NUMBER \_\_\_\_\_

CONTRACT TITLE: Supply and Delivery of Sulphur Trioxide (SO<sub>3</sub>) Plant Mechanical Spares "as and when required" for a period of five years at Kriel Power Station.

## PART 3: SCOPE OF WORK

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C3.2	<i>Supplier's</i> Goods Information	
	Total number of pages	

CONTRACT TITLE: Supply and Delivery of Sulphur Trioxide (SO<sub>3</sub>) Plant Mechanical Spares “as and when required” for a period of five years at Kriel Power Station.

## C3.1: *PURCHASER’S* GOODS INFORMATION

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CONTRACT TITLE: Supply and Delivery of Sulphur Trioxide (SO<sub>3</sub>) Plant Mechanical Spares "as and when required" for a period of five years at Kriel Power Station.

## 1 Overview and purpose of the goods and services

Kriel PS condition the dust particles with SO<sub>3</sub> to reduce the high resistivity and increase the ESP collection efficiency and as results achieve the emissions limit requirements of 100 mg/Nm<sup>3</sup> on a daily basis. It is requirement for the licence holder to ensure that these conditions are always adhered to through a continuous focus on the operating, optimization, and maintenance of the plant. For this to happen effectively, maintenance work must be done at both all moving and damaged non-rotatable components.

## 2 Specification and description of the goods

ITEM NO	STOCK NUMBER	UNIT OF MEASURE	SHORT DESCRIPTION	LONG DESCRIPTION
1	608942	EA	GASKET PC:ID 585 X OD 625 MM;THK 5 MM	GASKET, PRE CUT: DIMENSIONS: ID 585 X OD 625 MM; THICKNESS: 5 MM; TYPE: INSULATOR; MATERIAL: FIBER; SHAPE: ROUND; TEMPERATURE RATING: 0-1100 DEG C; ISOPLAN 1100; LYTHERM; DATA SHEET REQUIRED FOR QUALITY AND CERTIFICATION PURPOSES; BURNER OUTLET FLANGE
2	608938	EA	GASKET, PRE CUT: DIMENSIONS: ID 330 X OD 370 MM; THICKNESS: 5MM; TYPE: ISOLATION; MATERIAL: FIBRE CERAMIC; SHAPE: ROUND;	GASKET, PRE CUT: DIMENSIONS: ID 330 X OD 370 MM; THICKNESS: 5 MM; TYPE: ISOLATION; MATERIAL: CERAMIC FIBER; SHAPE: ROUND; TEMPERATURE RATING: 0-1100 DEG C; ISOPLAN 1100; LYTHERM; BURNER OUTLET FLANGE NO: 2; DATA SHEET REQUIRED FOR QUALITY AND CERTIFICATION PURPOSES
3	608939	EA	GASKET PC:ID 485 X OD 525 MM;THK 5 MM	GASKET, PRE CUT: DIMENSIONS: ID 485 X OD 525 MM; THICKNESS: 5 MM; TYPE: ISOLATION; MATERIAL: CERAMIC FIBER; SHAPE: ROUND; TEMPERATURE RATING: 0-1100 DEG C; ISOPLAN 1100; LYTHERM; DATA SHEET REQUIRED FOR QUALITY AND CERTIFICATION PURPOSES; BURNER LANCE FLANGE
4	608944	EA	GASKET PC:ID 1.475 X OD 1.515 M;THK 5 MM	GASKET, PRE CUT: DIMENSIONS: ID 1.475 X OD 1.515 M; THICKNESS: 5 MM; TYPE: ISOLATION; MATERIAL: CERAMIC FIBER; SHAPE: ROUND; TEMPERATURE RATING: 0-1100 DEG C; ISOPLAN 1100; LYTHERM; DATA SHEET REQUIRED FOR QUALITY AND CERTIFICATION PURPOSES; GASKET IS 5 TIMES SEGMENTED; BURNER LID GASKET
5	608943	EA	GASKET PC:ID 330 X OD 370 MM;THK 5 MM	GASKET, PRE CUT: DIMENSIONS: ID 330 X OD 370 MM; THICKNESS: 5 MM; TYPE: INSULATOR; MATERIAL: CERAMIC FIBER; SHAPE: ROUND; TEMPERATURE RATING: 0-1100 DEG C; ISOPLAN 1100; LYTHERM; DATA SHEET REQUIRED FOR QUALITY AND CERTIFICATION PURPOSES; BURNER INLET FLANGE
6	608941		GASKET PC:ID 91 X OD 183 MM;THK 5 MM;190	GASKET, PRE CUT: DIMENSIONS: ID 91 X OD 183 MM; THICKNESS: 5 MM; TYPE: INSULATOR; MATERIAL: CERAMIC FIBER; SHAPE: ROUND; TEMPERATURE RATING: 0-1100 DEG C; NOMINAL FLANGE SIZE: 190 MM; ISOPLAN 1100; LYTHERM; DATA SHEET REQUIRED FOR QUALITY AND CERTIFICATION PURPOSES; FOR FLEXIBLE HOSES

CONTRACT TITLE: Supply and Delivery of Sulphur Trioxide (SO<sub>3</sub>) Plant Mechanical Spares "as and when required" for a period of five years at Kriel Power Station.

		EA		
7	621332	EA	VALVE GLB:1/2 IN;32.8 MPA;80 MM;MANUAL	VALVE, GLOBE: VALVE SIZE: 1/2 IN; DESIGN PRESSURE: 32.8 MPA; DESIGN TEMPERATURE: 427 DEG C AT 76 BAR; FACE TO FACE LENGTH: 80 MM; OPERATED: MANUAL; CONNECTION: BW; BODY MATERIAL: ASTM A105; TRIM: F6/STELLITED; GRADE: ASTM A105; STEM DESIGN: YOKE; STYLE: T PATTERN; APPLICATION: CONDENSATE DRAIN; TYPE: FLOW; DESIGN RATING: 800 LB; TEMPERATURE RATING: 427 DEG C
8	621237	EA	BASKET STRNR:WD 10 X HT 11 IN;SS GR 316	BASKET, STRAINER: DIMENSIONS: WD 10 X HT 11 IN; MATERIAL: SS GR 316; PERFORATION SIZE: 1/16 IN; TYPE: DUPLEX; MEDIA FOR WHICH DESIGNED: LIQUID SULPHUR; SHAPE: RECTANGULAR; APPLICATION: TRANSPORTATION AND FILTERING MOLTEN LIQUID; FLANGE: CF8M; STYLE: SSDXF; CLASS: 150LB; SIZE: 1IN; SEALS: VITON; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
9	56531	EA	HOSE ASSY, NON MTLC;65 MM, LG 1000 MM	HOSE ASSEMBLY, NON METALLIC: HOSE SIZE: 65 MM; LENGTH: 1.1 M; CONNECTION 1: FLANGE FLOATING (4) HOLES DIA 18, PCD 145 MM; CONNECTION 2: FLANGE FLOATING (4) HOLES DIA 18, PCD 145 MM; CORE MATERIAL: STAINLESS STEEL; COVER MATERIAL: SS BRAIDED; TYPE: FLEXIBLE CORRUGATED; FOR SO3 PLANT; SIZE 76MM OD
10	157226	EA	CATALYST: VANADIUM PENTOXIDE XLP- 110	CATALYST: TYPE: VANADIUM PENTOXIDE XLP-110; FORM: RIBBED RING; CONTAINER: DRUM 200 L; FOR USE IN SO3 SYSTEM CONVERTER; SIZE: 12 MM; REQUIRED A MATERIAL SAFETY DATA SHEET WITH EVERY DELIVERY; SULFURIC ACID CATALYST
11	69159	EA	BALL:SO3 CONVERTER;20 MM;CER	BALL: TYPE: SO3 CONVERTER; DIAMETER: 20 MM; MATERIAL: CERAMIC; THE ITEM MUST BE SUPPLIED IN A SEALED 210L STL DRUM; ONE DRUM = ONE EACH
12	750486	EA	ORING SET:ROUND;2;VIT ON	O RING SET: TYPE: ROUND; APPLICATION: SEALING OF STRAINER COVERS; QUANTITY: 2; MATERIAL: VITON; SIZE RANGE: OD 60 X ID 52 X THK 4 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
13	750484		ORING SET:ROUND;2;VIT ON	O RING SET: TYPE: ROUND; APPLICATION: SEALING OF STRAINER COVERS; QUANTITY: 2; MATERIAL: VITON; SIZE RANGE: OD 90 X ID 80 X THK 5 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).



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		EA		
14	750483	EA	ORING SET:ROUND;2;VIT ON	O RING SET: TYPE: ROUND; APPLICATION: SEALING OF STRAINER COVERS; QUANTITY: 2; MATERIAL: VITON; SIZE RANGE: OD 58 X ID 48 X THK 5 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
15	750485	EA	ORINGSET: ROUND;2;VITON	O RING SET: TYPE: ROUND; APPLICATION: SEALING OF STRAINER COVERS; QUANTITY: 2; MATERIAL: VITON; SIZE RANGE: OD 20 X ID 16 X THK 2 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
16	210360	EA	SHEET GSKT:THK 1.5 MM;LG 2 M;WD 1.5 M	SHEET, GASKET: THICKNESS: 1.5 MM; LENGTH: 2 M; WIDTH: 1.5 M; MATERIAL: NBR/WOOL MINERAL FIBER; SUPPL P/N: WEBA6000; SUPPLIER NOTE ONLY BURGMANN BRAND ACCEPTABLE, STEAM APPLICATION: PEAK TEMPERATURE: 440 DEG C, CONTINUOUS TEMPERATURE: 350 DEG C, TEMPERATURE WITH STEAM; 300 DEG C, PRESSURE: 120 BAR/1740 PSI
17	210362	EA	SHEET GSKT:THK 3 MM;LG 2 M;WD 1.5 M	SHEET, GASKET: THICKNESS: 3 MM; LENGTH: 2 M; WIDTH: 1.5 M; MATERIAL: NBR/WOOL MINERAL FIBER; SUPPL P/N: WEBA6000; SUPPLIER NOTE ONLY BURGMANN BRAND ACCEPTABLE, STEAM APPLICATION: PEAK TEMPERATURE: 440 DEG C, CONTINUOUS TEMPERATURE: 350 DEG C, TEMPERATURE WITH STEAM; 300 DEG C, PRESSURE: 120 BAR/1740 PSI.
18	189955	EA	GREASE INDSTR: BEARING;55 DEG C;125/WA2	GREASE, INDUSTRIAL: TYPE: BEARING; TEMPERATURE RATING: 55 DEG C; VISCOSITY RATING: 125/WA2; COLOR: GREEN; CONTAINER: 125 ML; SUPPL P/N: LAGD125/WA2; FOR USE ON MILL SEAL AIR AND SO3 FAN BEARINGS, TO BE SUPPLY IN CANISTERS WIT GAS ADJUSTER ON TOP.
19	718046	EA	STRAINER:DUP;W D10 X HT11 IN;149 MM;100	STRAINER: TYPE: DUPLEX; DIMENSIONS: WD10 X HT11 IN; MATERIAL: STAINLESS STEEL 316; FILTERING RETENTION: 149 MM; MESH: 100; MICRON: 149 MM; SPECIFICATION: SSDPXF
20	73541		TRAP STEAM:BW 25 MM;110 BAR;13CRMO44	TRAP, STEAM: CONNECTION: BW 25 MM; PRESSURE RATING: 110 BAR; MATERIAL: 13CRMO44; SUPPLIER NOTE: THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED, BSV116/BK29/PN160; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).

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		EA		
21	59004	EA	TRAP STEAM:BELLOWS AIR/WATER;BSP 1/2 IN	TRAP, STEAM: TYPE: BELLOWS AIR/WATER; CONNECTION: BSP 1/2 IN; PRESSURE RATING: 17 BAR; MATERIAL: PC; SUPPL P/N: 4539D; SCHRABER, FOR DRY DUST BLOWPOTS, TEMPERATURE RANGE -10 DEG C TO +50 DEG C; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
22	73690	EA	VALVE GATE:1/2 IN;WEDGE;THD;80 MM;MANUAL	VALVE, GATE: VALVE SIZE: 1/2 IN; TYPE: WEDGE; CONNECTION: THD; FACE TO FACE LENGTH: 80 MM; BODY MATERIAL: FST ASTM A105; TRIM: DISC/SEAT F6-HF; STEM F6; OPERATED: MANUAL; STEM DESIGN: RISING SPINDLE; STYLE: BOLTED BONNET; TEMPERATURE RATING: 0-850 DEG F; DESIGN RATING: 800 LB; CAT NO: L813; OMB; FOR ASH HOPPERS.
23	74272	EA	VALVE GLB:50 MM;AIR;FLANGE;C S;300 LB	VALVE, GLOBE: VALVE SIZE: 50 MM; OPERATED: AIR; CONNECTION: FLANGE; BODY MATERIAL: CS; STEM DESIGN: RISING SPINDLE; STYLE: BOLTED BONNET; DESIGN RATING: 300 LB; REFERENCE NO: 667ES; 20X6 MM; FISHER
24	750578	EA	BOLT ASSY:FULLY THREADED M20 X 120MM;16	BOLT, ASSEMBLY: TYPE: FULLY THREADED M20 X 120MM; NOMINAL DIAMETER: 16 MM; LENGTH: 75 MM; HEAD: 24 MM; GRADE: 8.8; MATERIAL: STAINLESS STEEL; THREAD LENGTH: 65 MM; THREAD: RIGHT HAND; NUT QUANTITY: 1; NUT MATERIAL: STAINLESS STEEL; RIGHT HAND THREAD DIRECTION, PITCH SIZE X 2.5 MM
25	750581	EA	BOLT ASSY:THD;20 MM;LG 75 MM;30 MM;8.8;1	BOLT, ASSEMBLY: TYPE: THREADED; NOMINAL DIAMETER: 20 MM; LENGTH: 75 MM; HEAD: 30 MM; GRADE: 8.8; MATERIAL: STAINLESS STEEL; THREAD LENGTH: 50 MM; THREAD: RIGHT HAND; NUT QUANTITY: 1; NUT MATERIAL: STAINLESS STEEL; NUT GRADE: 8.8; RIGH HAND THREAD DIRECTION,
26	751406	EA	BOLT ASSY:STUD;16 MM;LG 150 MM;HEXAGON;2	BOLT, ASSEMBLY: TYPE: STUD; NOMINAL DIAMETER: 16 MM; LENGTH: 150 MM; HEAD: HEXAGON; GRADE: 8.8; MATERIAL: STAINLESS STEEL,316; THREAD LENGTH: 150 MM; THREAD: HEXAGON; NUT QUANTITY: 2; NUT MATERIAL: STAINLESS STEEL ,304; THREAD 1 LENGTH X 30 MM, THREAD 2 LENGTH X 30 MM AND SHANK LENGTH X 90MM; THREAD DIAMTER X 16 MM AND PITCH 2.5 MM; STUDS ARE THREADED ON BOTH SIDES WITH A SHANK IN THE MIDDLE
	751405		BOLT ASSY:STUD;16 MM;LG 140 MM;HEXAGON;2	BOLT, ASSEMBLY: TYPE: STUD; NOMINAL DIAMETER: 16 MM; LENGTH: 140 MM; HEAD: HEXAGON; GRADE: 8.8; MATERIAL: STAINLESS STEEL,316; THREAD LENGTH: 140 MM; THREAD: RIGHT HAND; NUT QUANTITY: 2; NUT MATERIAL: STAINLESS STEEL ,304; THREAD 1 LENGTH X 30 MM, THREAD 2 LENGTH X 30 MM AND SHANK LENGTH X 80MM; THREAD DIAMTER X 16 MM AND PITCH X 2.5 MM; STUDS ARE THREADED BOTH SIDES WITH A SHANK IN THE MIDDLE

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27		EA		
28	751404	EA	BOLT ASSY:STUD;20 MM;LG 145 MM;HEXAGON;2	BOLT, ASSEMBLY: TYPE: STUD; NOMINAL DIAMETER: 20 MM; LENGTH: 145 MM; HEAD: HEXAGON; GRADE: 8.8; MATERIAL: STAINLESS STEEL,316; THREAD LENGTH: 145 MM; THREAD: RIGHT HAND; NUT QUANTITY: 2; NUT MATERIAL: STAINLESS STEEL ,304; THREAD 1 LENGTH X 30 MM, THREAD 2 LENGTH X 30 MM AND SHANK LENGTH X 85 MM; THREAD DIAMETER X 20 MM AND PITCH X 2.5 MM; STUDS ARE THREADED ON BOTH SIDES WITH A SHANK IN THE MIDDLE.
29	58802	EA	TRAP STEAM:FLOAT AIR;BSP 1/2 IN;4.5 BAR	TRAP, STEAM: TYPE: FLOAT AIR; CONNECTION: BSP 1/2 IN; PRESSURE RATING: 4.5 BAR; MATERIAL: STL; SUPPL P/N: FT14TV4-5; COMPLETE, TMO:-156 DEG CELSIUS,(TV = THERMOSTATIC AIR VENT), FOR S03; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
30	751400	EA	ELBOW:UNION;8 MM;TUBE;SS;90 DEG	ELBOW: TYPE: UNION; SIZE: 8 MM; CONNECTION: TUBE; MATERIAL: STAINLESS STEEL; DEGREE: 90 DEG; LENGTH X 29.4 MM, NUT X 15.87 MM; TUBE TO TUBE CONNECTION
31	750579	EA	UNION: PIPE;8 MM; THD;SS	UNION: TYPE: PIPE; SIZE: 8 MM; CONNECTION: THREADED; MATERIAL: STAINLESS STEEL; 1/2 INCH THREADED PITCH AND 20 MM THREADED LENGTH
32	750488	EA	INSERT TUBE:OD 14.28 MM;ID 8 MM	INSERT, TUBE: OUTSIDE DIAMETER: 14.28 MM; INSIDE DIAMETER: 8 MM; MATERIAL: STAINLESS STEEL, 316; UNION TEE, LENGTH X 30 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
33	751401	EA	CONNECTOR:NPT THREAD;DIA9.53 X LG39.5 MM.	CONNECTOR: TYPE: NPT THREAD; DIMENSIONS: DIA9.53 X LG39.5 MM; MATERIAL: STAINLESS STEEL; TUBE TO MALE CONNECTOR
34	751402	EA	CONNECTOR:TAP ERED THREADED;SS	CONNECTOR: TYPE: TAPERED THREADED; DIMENSIONS: DIA8 X LG 41 XTHK 1 MM; MATERIAL: STAINLESS STEEL; TUBE TO MALE CONNECTOR
	750491		INSERT TUBE:OD 12 MM;ID 8 MM.	INSERT, TUBE: OUTSIDE DIAMETER: 12 MM; INSIDE DIAMETER: 8 MM; MATERIAL: STAINLESS STEEL, 316; FRONT FERRULE, 8 MM PIPE FITTING CONNECTION; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).

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35		EA		
36	750487	EA	INSERT TUBE:OD 12 MM;ID 12 MM	INSERT, TUBE: OUTSIDE DIAMETER: 12 MM; INSIDE DIAMETER: 12 MM; MATERIAL: STAINLESS STEEL, 316; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
37	750489	EA	INSERT TUBE:OD 8 MM;ID 6 MM	INSERT, TUBE: OUTSIDE DIAMETER: 8 MM; INSIDE DIAMETER: 6 MM; MATERIAL: STAINLESS STEEL, 316; LENGTH X 6.1 M; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
38	753602	EA	ELBOW:ASTM A234 WPD;21.3 MM;BUTT WELD;90	ELBOW: TYPE: ASTM A234 WPD; SIZE: 21.3 MM; CONNECTION: BUTT WELD; MATERIAL: CARBON STEEL; DEGREE: 90 DEG; RADIUS: 38.1 MM; SCHEDULE: 40; GRADE: ANSI B16.9; SPECIFICATION: ANSI B16.9; BUTT WELD FITTING, WALL THICKNESS X 2.7 MM AND ID X 15.88
39	750580	EA	ELBOW:ASTM A234 WPD;21.3 MM;BUTT WELD;90	ELBOW: TYPE: ASTM A234 WPD; SIZE: 21.3 MM; CONNECTION: BUTT WELD; MATERIAL: CARBON STEEL; DEGREE: 90 DEG; RADIUS: 38.1 MM; SCHEDULE: 80; GRADE: ANSI B16.9; SPECIFICATION: ANSI B16.9; BUTT WELD FITTING, WALL THICKNESS X 3.73 MM AND ID X 13.9 MM
40	63690	EA	GREASE: BEARING; 20 DEG C;CAN 1 KG	GREASE: TYPE: BEARING; TEMPERATURE RATING: 20 DEG C; CONTAINER: CAN 1 KG; REFERENCE NO: LGHT3; REQUIRE A MATERIAL SAFETY DATA SHEET WITH EVERY DELIVERY
41	69158	EA	TUBE LNCE:64053001L0 0006	TUBE, LANCE: DRAWING NO: D64053001 L00006 REV 1; REFERENCE NO: 64053001L00006; INJECTION FOR S03 PLANT INJECTION TO AIR HEATER OUTLET; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
42	649006	EA	VALVE GLB:1 IN;103 BAR;-18 TO 232 DEG C	VALVE, GLOBE: VALVE SIZE: 1 IN; DESIGN PRESSURE: 103 BAR; DESIGN TEMPERATURE: -18 TO 232 DEG C; FACE TO FACE LENGTH: 197 MM; OPERATED: ACTUATOR PNEUMATIC; CONNECTION: FLANGE RF; BODY MATERIAL: STL GR WCC; TRIM: BOLTED BODY/BONNET; PLUG SS 416; RING RETAINER CB7CU-1SST; SEAT RING SS 541600; STEM 3/8 IN SS 316; GRADE: WCC; CL 300; SOFTGOODS; PTFE; STYLE: SINGLE PORT; APPLICATION: S03 PLANT COMMON STEAM SUPPLY; SPECIFICATION: NPS1-EZ; DESIGN RATING: CL 300; REFERENCE NO: EZ-6-80155; BONNET STYLE PLAIN; GASKETS NICKEL ALLOY N06600; STUDS SA-193-B7/ NUTS NCF2; FISHER CONTROL VALVE, ACTUATOR SPRING/DIAPHRAGM, ACTUATOR 667134I; SEAT METAL
43	41552	EA	FILTER AIR: PRIMARY INLET; GLASS FIBER	FILTER, AIR: TYPE: PRIMARY INLET; DIMENSIONS: WD 290 X LG 590 X DP 360 MM; MATERIAL: GLASS FIBER; AP
44	161400	EA	GREASE: BEARING;20 DEG C; CAN 1 KG	GREASE: TYPE: BEARING; TEMPERATURE RATING: 20 DEG C; CONTAINER: CAN 1 KG; REFERENCE NO: LGHT3; REQUIRE A MATERIAL SAFETY DATA SHEET WITH EVERY DELIVERY
	152059		GLASS SGHT: DIA 100 X THK 10 MM;GLASS;500	GLASS, SIGHT: DIMENSIONS: DIA 100 X THK 10 MM; MATERIAL: GLASS; COLOR: TRANSPARENT; RATING: 500 DEG C; QUARTS, QUALITY: HERASIL3, POLISHED ON BOTH SIDES, FOR USE ON SULPHUR FURNACE

CONTRACT TITLE: Supply and Delivery of Sulphur Trioxide (SO<sub>3</sub>) Plant Mechanical Spares "as and when required" for a period of five years at Kriel Power Station.

45		EA		
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## 2.1 *Purchaser's design*

Not applicable to this contract

## 2.2 *Procedure for submission and acceptance of Supplier's design*

- a) All goods or material are designed and manufactured in accordance with an accepted design standard and as per heading long item description table above
- b) The *Supplier* does not decide to provide an alternative or equivalent filter without approval by the Employer
- c) All goods supplied shall include material certification (where required) in line with the design code and standard
- d) The *Supplier* issues the data pack/ sheet for all *goods* supplied
- e) The data book of *goods* supplied includes but not limited NDT results, welding procedures (For filters that has specific NDT requirements. Those NDT certificate must form part of the delivery pack)
- f) All goods are delivered with relevant material certificate in line with the PQP/ Contract quality plan and metallurgical relevant tests

The *Supplier* submits particulars of the design of an item of *goods* to the *Supply Manager* for acceptance when the instructed to do so. A reason for not accepting is that the design of the *goods* will not allow the *Supplier* to provide the *service* in accordance with the *Purchaser's* Goods Information, accepted plan or the applicable law.

## 2.3 *Other requirements of the Supplier's design*

Not applicable to this contract

## 2.4 *Use of Supplier's design*

The *Purchaser* is allowed to use the designs, drawings and documents for the purpose of verifying goods supplied and the fulfilment of PQP/ CQP/QCP

## 2.5 *Manufacture & fabrication*

As per heading 2.2 above and supply requirement on heading 3

## 2.6 *Factory acceptance testing (FAT)*

As per heading 2.2 above and supply requirement on heading 3

## 2.7 *Other tests and inspections and commissioning in place of use*

Not applicable to this contract

## 2.8 *Operating manuals and maintenance schedules*

Not applicable to this contract

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### 3 Supply Requirements

- a) *Supplier* to deliver goods in line with lead times prescribed on Part C2 (Data by the Purchaser) upon receipt of order
- b) All purchased goods must be delivered at Kriel Power Station stores
- c) The *Supplier* ensures that the goods are delivered during working hours and reasonable time must be allocated for gate access, off-loading, paperwork processing. Working Hours for Kriel Power Station are as follows: Monday to Thursday – 07h00 to 16h15 and Friday 07h00 to 12h00
- d) Where deliveries are to be made outside the working hours, the *Supplier* need to confirm the availability of Kriel Power Station Stores receiving personnel before dispatching the items
- e) The *Supplier* to be prepared and always ready to provide goods within an acceptable delivery period when urgently required.
- f) Supply and deliver orders according to specification as per the SOW and handle defective material and premature failure of components
- g) Perform quality verification.
- h) Provide onsite and offsite material storage procedure as per the equipment manufacturer requirements.
- i) Perform safe stock handling and transportation of all filters
- j) Provide technical support to the Employer on delivered filters as per the SOW in liaising with respective equipment manufacturer
- k) Transport goods and provide technical support
- l) All *goods* are packaged such that inadvertent mechanical damage to components is not possible
- m) Damaged *goods* due to the fault of the *Supplier* are corrected at *Supplier's* cost
- n) All intervention points and data books are supplied for all goods as signed off in line with PQP/ Contract quality plan and QCPs

The Supply Requirements for this contract are in an Annexure to the Contract Data provided by the *Purchaser*.

### 4 Specification of the services to be provided

As per Table on heading 2

### 5 Constraints on how the *Supplier* Provides the Goods

#### 5.1 Programming constraints

- a) The *Supplier* submits a program to the *Supply Manager* as per the agreed lead times during negotiations which covers all milestones of the manufacturing process up to delivery to site.
- b) The *Supplier* shares the program two (2) days after placement of each order to the *Supply Manager* for acceptance
- c) The early warning as per clause 16.1 is used to communicate the changes on agreed delivery schedule/ programme

<b>goods and services</b>	<b>delivery date</b>
All type of SO <sub>3</sub> mechanical plant spares	10 working days after purchase order issuance

**Commented [A1]:** There is a six (6) months lead time for some High Pressure pipes and Tubes in the scope. Especially the Hot Reheat Piping. A lead timer of 5 working days for HP Piping needs to be changed.

#### 5.2 Work to be done by the Delivery Date

The agreed delivery date of the goods is the date after all the Quality Control Processes and correction of defects.

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### 5.3 Marking the goods

As a minimum, all material shall have a permanent marking that indicates the following information

- a) Name of the manufacturer
- b) Year of manufacture
- c) Unique spare serial number per item
- d) Design standard as it appear on the table heading 2.2 detailed item description such as SABS stipulated standard
- e) The sticker showing the Purchaser's order number plugged on the packaging

NB: for off the shelf goods, a material data sheet with material certs is required and all requirements on heading 5.3 apply

### 5.4 Constraints at the delivery place and place of use

- a) All deliveries should be arranged to be within Kriel Power Station normal working hours as stipulated in section 3 of this document.
- b) Kriel Power Station site access will be adhered to. The *Supplier* informs the Purchaser timeously to make all necessary arrangement.

### 5.5 Cooperating with Others

- a) The *Supplier* cooperates with the stores personnel during delivery.
- b) The *Supplier* cooperates with the Purchasers team in ensuring that the goods are delivered in accordance with all requirements.

### 5.6 Services & other things to be provided by the *Purchaser* or *Supplier*

- a) The availability of rigging equipment, cranes or forklift and the relevant operators must be confirmed with the Kriel Power Station (*Supply manager*) before dispatching the *goods*.
- b) The Supplier provides offloading people to assist with offloading at receiving. NB: The Supplier offloading team names must be part of the valid approved safety file

### 5.7 Management meetings

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

Title and purpose	Approximate time & interval	Location	Attendance by:
Overall contract progress and feedback	Quarterly or as and when urgent need arises	either face to face or virtual at a convenient venue	<i>Purchaser, Supplier, and Cross functional team members</i>
Contract risk reduction or Early warning meeting	When the need arises	TBC	<i>Purchaser, Supplier, and CFT</i>
Contractor partnership SHEQ meeting	Monthly	TBC	Statutory meeting, Supplier to attend

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

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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.

## 5.8 Documentation control

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

The manufacturing data books shall be submitted in hardcopy and soft copy format. The following documentation shall form part of the manufacturing data book:

- a. Material Certificates/ data sheets
- b. NDT results certificates where goods have such a requirement such as MPI etc.
- c. Manufacturing QCP's (All fully signed- All goods are accepted and signed off by Employer's QC
- d. Storage and Maintenance procedures.

## 5.9 Health and safety risk management

- a) The *Supplier* complies with Section 10 of Occupational Health and Safety Act (Act No.85 of 1993) when manufacturing any *goods* for this Contract.
- b) The *Supplier* shall comply with Site health and safety requirements for Kriel Power Station when delivering *goods*.
- c) Site Delivery safety requirements to be adhered to - and can be obtained through the *Purchaser's Manager* In line with the SHE specification
- d) The *Supplier* submits safety file for approval before access is granted
- e) The *Supplier* maintains the safety file validity in line with Site requirements
- f) The mode of transport for Delivery should comply with Site requirement in line with issued SHE specification
- g) *Supplier* to update their safety file yearly and each time they make changes on their staff or personnel
- h) The *Supplier* ensures that when changing a team member, the new team gets inducted and all process of safety file approval is adhered to- before gaining access to site

The *Supplier* shall comply with the health and safety requirements contained in Annexure A of the Invitation to Tender

## 5.10 Environmental constraints and management

The *Supplier* shall comply with the environmental criteria and constraints when doing deliveries at Kriel Power Station premises regarding:

- a) The vehicle used for delivery; by ensuring that there are no oil spillages, and the vehicle emission is not emitting beyond limits.
- b) The material used for supporting the *goods* being delivered are correctly disposed and are without harm to environment. The *Supplier* must comply with site Environmental management plan (EMP) and other requirement.
- c) The *Supplier* complies with Environmental aspect and impact register.
- d) The *Supplier* complies with all site's environmental management procedures, especially the waste management and oil spillages

The *Supplier* shall comply with the environmental criteria and constraints contained in Annexure B of the Invitation to Tender

## 5.11 Quality

- a) The *Supplier* compiles the baseline Quality Control plan



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- b) Quality Control Plan (QCP) must be approved by both the *Suppliers*, Eskom engineer and QC inspector before commencing with any deliveries at the beginning of the contract
- c) Material certificates, mechanical testing certificate and NDT certificates should be part of the data package accompanying the QCPs.
- d) All delivered goods will be subjected to QC verification by an Employer's Quality personnel at receiving as per detailed item description found in heading 2 table
- e) The *Supplier* must comply with Eskom's Supply Quality Management Specification (Document No: 240-105658000) and ISO 9001:2015 requirements.
- f) The *Employer* will on frequent basis conduct the *Supplier's* performance/ compliance in accordance to QM 58 and ISO 9001 and NCR will be raised for non-compliance

The *Supplier* shall comply with the quality criteria and constraints contained in Annexure C of the Invitation to Tender

## 5.12 Invoicing and payment

Within one week of receiving a payment certificate from the *Supply Manager* in terms of core clause 51.1, the *Supplier* provides the *Purchaser* with a tax invoice showing the amount due for payment equal to that stated in the *Supply Manager's* certificate.

The *Supplier* shall address the tax invoice to *Purchaser* and include on each invoice the following information:

- Name and address of the *Supplier* and the *Supply Manager*;
- The contract number and title;
- *Supplier's* VAT registration number;
- The *Purchaser's* VAT registration number.
- Description of *goods* and *services* provided for each item invoiced based on the Price Schedule;
- Total amount invoiced excluding VAT, the VAT and the invoiced amount including VAT;
- NB: All assessment and data books requirements to be met before any payment can be processed

## 5.13 Insurance provided by the *Purchaser*

Not applicable to this contract

## 5.14 Contract change management

The change management process to be followed as per the core clause 16.1. Any verbal instruction/communication must be backed with a written instruction; the use of minutes, letters or emails is accepted. Any communication must go through the purchaser's manager.

## 5.15 Provision of bonds and guarantees

Not Applicable to this contract

## 5.16 Records of Defined Cost, payments & assessments of compensation events to be kept by the *Supplier*

Early warning to be given by any of the parties as soon either becomes aware of matters that could increase the total of total prices, delay completion etc. All the compensation events will be implemented through the raising of an early warning. See NEC Core clause 16.1 and 63.1 and 63.2

CONTRACT TITLE: Supply and Delivery of Sulphur Trioxide (SO<sub>3</sub>) Plant Mechanical Spares "as and when required" for a period of five years at Kriel Power Station.

## 6 Procurement

### 6.1 Subcontracting

#### 6.1.1 Preferred subcontractors

Awaiting Thomas input

#### 6.1.2 Limitations on subcontracting

Awaiting Thomas input

#### 6.1.3 Spares and consumables

Not Applicable to this Contract

#### 6.1.4 Other requirements related to procurement

Other requirements such as ASGISA or socio political enhancements the *Supplier* is to provide as part of Providing the Goods and Services (if any) could be included here.

#### 6.1.5 Cataloguing requirements by the *Supplier*

Not Applicable to this Contract (All items are stock items)

## 7 List of drawings

### 7.1 Drawings issued by the *Purchaser*

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

Drawing number	Revision	Title

ESKOM HOLDINGS SOC Ltd

CONTRACT NUMBER \_\_\_\_\_

CONTRACT TITLE: Supply and Delivery of Sulphur Trioxide (SO<sub>3</sub>) Plant Mechanical Spares "as and when required" for a period of five years at Kriel Power Station.

## **C3.2 SUPPLIER'S GOODS INFORMATION**

This section of the Goods Information will always be contract specific depending on the nature of the *goods* and *services*.

It is most likely to be required for supply contracts where the tendering supplier will have proposed specifications and schedules for the *goods* and *services*, which once accepted by the *Purchaser* prior to award of contract now become obligations of the *Supplier* per core clause 20.1.

This section could also be compiled as a separate file.

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