



NEC3 Supply Contract (SC3)

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

and [Insert at award stage]
(Reg No. _____)

for Supply and deliver various spares for Outage at
Tutuka Power Station

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CONTRACT No. [Insert at award stage]

PART C1: AGREEMENTS & CONTRACT DATA

Contents:

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C1.2b Contract Data provided by the *Supplier*.

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 deliver various spares for Outage at Tutuka 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	Rate Based
	Value Added Tax @ 15% is	Rate Based
	The offered total of the amount due inclusive of VAT is ¹	Rate Based
	(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

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

Acceptance

By signing this part of this Form of Offer and Acceptance, the *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.

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

No.	Subject	Details
1	N/A	N/A

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)*

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

Name &
signature
of witness

Date

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	General	
	The <i>conditions of contract</i> are the core clauses and the clauses for Options	
		X1: Price adjustment for inflation
		X2: Changes in the law
		X7: Delay damages
		X17: Low performance damages
		Z: Additional conditions of contract
	of the NEC3 Supply Contract (April 2013) ²	(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):	Eskom Holdings SOC Ltd (reg no: 2002/015527/30), a state owned company incorporated in terms of the company laws of the Republic of South Africa
	Address	Registered office at Megawatt Park, Maxwell Drive, Sandton, Johannesburg
	Tel No.	[•]
	Fax No.	[•]
10.1	The <i>Supply Manager</i> is (name):	[•]
	Address	[•]
	Tel	[•]
	Fax	[•]
	e-mail	[•]
11.2(13)	The <i>goods</i> are	Supply and deliver of Supply and deliver various spares for Outage at Tutuka Power Station
11.2(13)	The <i>services</i> are	Supply and deliver of Supply and deliver various spares for Outage at Tutuka Power Station
11.2(14)	The following matters will be included in the Risk Register	1) Delays on delivery 2) Quality of deliverables

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

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	The Supplier's main responsibilities	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	Time		
30.1	The <i>starting date</i> is.	TBA	
30.1	The <i>delivery date</i> of the <i>goods and services</i> is:	<i>goods and services</i>	<i>delivery date</i>
		1 Supply and deliver of Supply and deliver various spares for Outage at Tutuka Power Station	31 October 2024
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	On delivery.	
32.2	The <i>Supplier</i> submits revised programmes at intervals no longer than	1 week.	
4	Testing and defects		
42	The <i>defects date</i> is	12 months after Installation	
43.2	The <i>defect correction period</i> is	1 weeks (To be negotiated between <i>Purchaser</i> and <i>Supplier</i> based on criticality of spares)	
	except that the <i>defect correction period</i> for	1 week	
	and the <i>defect correction period</i> for	1 week	
42.2	The <i>defects access period</i> is	To be negotiated between <i>Purchaser</i> and <i>Supplier</i>	
	except that the <i>defect access period</i> for		
	and the <i>defect access period</i> for		
5	Payment		
50.1	The <i>assessment interval</i> is	After each delivery and acceptance of spares.	
51.1	The <i>currency of this contract</i> is the	South African Rand	

51.2	The period within which payments are made is	4 weeks.
51.4	The <i>interest rate</i> is	<p>the publicly quoted prime rate of interest (calculated on a 365 day year) charged from time to time by the Standard Bank of South Africa Limited (as certified, in the event of any dispute, by any manager of such bank, whose appointment it shall not be necessary to prove) for amounts due in Rands and</p> <p>(ii) the LIBOR rate applicable at the time for amounts due in other currencies. LIBOR is the 6 month London Interbank Offered Rate quoted under the caption "Money Rates" in The Wall Street Journal for the applicable currency or if no rate is quoted for the currency in question then the rate for United States Dollars, and if no such rate appears in The Wall Street Journal then the rate as quoted by the Reuters Monitor Money Rates Service (or such service as may replace the Reuters Monitor Money Rates Service) on the due date for the payment in question, adjusted <i>mutatis mutandis</i> every 6 months thereafter and as certified, in the event of any dispute, by any manager employed in the foreign exchange department of The Standard Bank of South Africa Limited, whose appointment it shall not be necessary to prove.</p>
6	Compensation events	There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data.
7	Title	There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data.
8	Risks, liabilities, indemnities and insurance	
80.1	These are additional <i>Purchaser's</i> risks	<p>1. Delivery of incorrect spares</p> <p>2. Delivery of defective spares</p>
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	<p>(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</p> <p>(2) for all other existing <i>Purchaser's</i> property the applicable deductible as at contract date</p>

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:	
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	
88.5	The <i>end of liability date</i> is	52 weeks 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 www.ice-sa.org.za). If the Parties do not agree on an Adjudicator the Adjudicator will be appointed by the Arbitration Foundation of Southern Africa (AFSA).
	Address	[•]
	Tel No.	[•]
	Fax No.	[•]
	e-mail	[•]
94.2(3)	The <i>Adjudicator nominating body</i> is:	the Chairman of ICE-SA, a Division of the South African Institution of Civil Engineering, or its successor body (See www.ice-sa.org.za)
94.4(2)	The <i>tribunal</i> is:	arbitration
94.4(5)	The <i>arbitration procedure</i> is	the latest edition of Rules for the Conduct of Arbitrations published by The Association of Arbitrators (Southern Africa) or its successor body.
94.4(5)	The place where arbitration is to be held is	South Africa
	The person or organisation who will choose an arbitrator	
	- if the Parties cannot agree a choice or	
	- if the arbitration procedure does not state who selects an arbitrator, is	the Chairman for the time being or his nominee of the Association of Arbitrators (Southern Africa) or its successor body.

10 Data for Option clauses

X1	Price adjustment for inflation	
X1.1	The <i>base date</i> for indices is	The month prior to the enquiry closing date.

	The proportions used to calculate the Price Adjustment Factor are:	proportion	linked to index for	Index prepared by
		0.	[•]	[•]
		0.	[•]	[•]
		0.	[•]	[•]
		0.	[•]	[•]
		0.	[•]	[•]
		15%	non-adjustable	
		100%		
X2	Changes in the law			
X2.1	A change in the law of	Republic of South Africa is a compensation event if it occurs after the Contract Date		
X7	Delay damages			
X7.1	Delay damages for Delivery are	0.5% (zero point five per centum) increments of the batch order value per calendar day late, until damages have accumulated to 10% of the batch order.		
X17	Low performance damages			
X17.1	The amounts for low performance damages are:	Stated in the Purchaser's goods information		
Z	The additional conditions of contract are			
		Z1 to Z15 always apply for Eskom		

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

- 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.

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

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 <i>Supplier</i> or a third party, such party's employees, agents, or Subcontractors or Subcontractor's employees, or any one or more of all of these parties' relatives or friends,
Coercive Action	means to harm or threaten to harm, directly or indirectly, an Affected Party or the property of an Affected Party, or to otherwise influence or attempt to influence an Affected Party to act unlawfully or illegally,
Collusive Action	means where two or more parties co-operate to achieve an unlawful or illegal purpose, including to influence an Affected Party to act unlawfully or illegally,
Committing Party	means, as the context requires, the <i>Supplier</i> , or any member thereof in the case of a joint venture, or its employees, agents, or Subcontractors or the Subcontractor's employees,
Corrupt Action	means the offering, giving, taking, or soliciting, directly or indirectly, of a good or service to unlawfully or illegally influence the actions of an Affected Party,
Fraudulent Action	means any unlawfully or illegally intentional act or omission that misleads, or attempts to mislead, an Affected Party, in order to obtain a financial or other benefit or to avoid an obligation or incurring an obligation,
Obstructive Action	means a Committing Party unlawfully or illegally destroying, falsifying, altering or concealing information or making false statements to materially impede an investigation into allegations of Prohibited Action, and
Prohibited Action	means any one or more of a Coercive Action, Collusive Action Corrupt Action, Fraudulent Action or Obstructive Action.

- 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 *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.

Z13 Insurance

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

Insurance cover 84

- 84.1** When requested by a Party, the other Party provides certificates from his insurer or broker stating that the insurances required by this contract are in force.
- 84.2** The *Supplier* provides the insurances stated in the Insurance Table A for events which are at the *Supplier's* risk from the *starting date* until the last *defects date* or a termination certificate has been issued.

INSURANCE TABLE A

Insurance against	Minimum amount of cover or minimum limit of indemnity
Loss of or damage to the goods, plant and materials	The replacement cost where not covered by the <i>Purchaser's</i> insurance. The <i>Purchaser's</i> policy deductible as at Contract Date, where covered by the <i>Purchaser's</i> insurance.
Liability for loss of or damage to property (except the goods, 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	<u>Loss of or damage to property</u> <u><i>Purchaser's</i> property</u> The replacement cost where not covered by the <i>Purchaser's</i> insurance. The <i>Purchaser's</i> policy deductible as at Contract Date, where covered by the <i>Purchaser's</i> insurance. <u>Other property</u> The replacement cost <u>Death of or bodily injury</u> The amount required by the applicable law.
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

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

Nuclear Material Damage Terrorism	Per the insurance policy document
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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:

AAIA	means approved asbestos inspection authority.
ACM	means asbestos containing materials.
AL	means action level, i.e. a level of 50% of the OEL, i.e. 0.1 regulated asbestos fibres per ml of air measured over a 4 hour period. The value at which proactive actions is required in order to control asbestos exposure to prevent exceeding the OEL.
Ambient Air	means breathable air in area of work with specific reference to breathing zone, which is defined to be a virtual area within a radius of approximately 30cm from the nose inlet.
Compliance Monitoring	means compliance sampling used to assess whether or not the personal exposure of workers to regulated asbestos fibres is in compliance with the Standard's requirements for safe processing, handling, storing, disposal and phase-out of asbestos and asbestos containing material, equipment and articles.
OEL	means occupational exposure limit.
Parallel Measurements	means measurements performed in parallel, yet separately, to existing measurements to verify validity of results.

Safe Levels	means airborne asbestos exposure levels conforming to the Standard's requirements for safe processing, handling, storing, disposal and phase-out of asbestos and asbestos containing material, equipment and articles.
Standard	means the <i>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.
SANAS	means the South African National Accreditation System.
TWA	means the average exposure, within a given workplace, to airborne asbestos fibres, normalised to the baseline of a 4-hour continuous period, also applicable to short term exposures, i.e. 10-minute TWA.

- Z15.1 The *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 affected 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

[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 2010³ as follows:

Group	Category	Term	Delivery Place
	Delivery Cost Included	DCI	<i>Employer's stores</i>

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

³ International Chamber of Commerce, Incoterms 2010, Paris, January 2011

The Supply Requirements for this contract are as follows:

[Use these when INCOTERMS do not apply].

1. The requirements for the supply are	As stated in the contract goods information	
2. The requirements for transport are	As stated in the contract goods information	
3. The delivery place is	Tutuka Power Station Stores (receiving)	
4. Actions of the Parties during supply	Action	Party which does it
	Giving notice of Delivery	Supplier
	Checking packing and marking before dispatch	Supplier
	Contracting for transport	Supplier
	Pay costs of transport	Included in tendered rates
	Arrange access to delivery place	Purchaser
	Loading the <i>goods</i>	Supplier
	Unloading the <i>goods</i>	As stated in the contract goods information
For international procurement	Undertake export requirements	Supplier
	Undertake import requirements	Supplier
5. Information to be provided by the Supplier	Title of document	
	Packing lists for cases and their contents	
	Copy of invoice for the <i>goods</i>	
	Delivery Note	
	Test results and maintenance manuals	
For international procurement	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

C1.2 Contract Data

Part two - Data provided by the *Supplier*.

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 and services</i> is:	<table border="1"> <thead> <tr> <th></th><th><i>goods and services</i></th><th><i>delivery date</i></th></tr> </thead> <tbody> <tr> <td>1</td><td>[•]</td><td>[•]</td></tr> <tr> <td>2</td><td>[•]</td><td>[•]</td></tr> <tr> <td>3</td><td>[•]</td><td>[•]</td></tr> </tbody> </table>		<i>goods and services</i>	<i>delivery date</i>	1	[•]	[•]	2	[•]	[•]	3	[•]	[•]
	<i>goods and services</i>	<i>delivery date</i>												
1	[•]	[•]												
2	[•]	[•]												
3	[•]	[•]												
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	%												

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

How *goods* and *services* are priced and assessed for payment

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

Identified and defined terms	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.
Assessing the amount due	50.2	The amount due is
		<ul style="list-style-type: none"> the Price for each lump sum item in the Price Schedule which the <i>Supplier</i> has completed, 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, plus other amounts to be paid to the <i>Supplier</i>, less amounts to be paid by or retained from the <i>Supplier</i>.
		Any tax which the law requires the <i>Purchaser</i> to pay to the <i>Supplier</i> is included in the amount due.

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.

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.

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;
- 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.

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.

C2.2 the *price schedule*

ITEM NUMBER	Material Number	Material Description	Price
1	17150	PLATE, METAL: DIMENSIONS: WD 1.2 M X LG 2.5 M X THK 32 MM; MATERIAL: MS BS 4360, SABS 1431; WEIGHT: 753.6 KG; PROCESS: HOT ROLLED; GRADE: 300WA EN43A	
2	83599	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M20; LENGTH: 50 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 33 MM; THREAD: 2.5 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	
3	84557	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M8; LENGTH: 75 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 25 MM; THREAD: 1.25 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	
4	162359	PLATE, METAL: DIMENSIONS: WD 1.2 M X LG 2.5 M X THK 10 MM; MATERIAL: MS; WEIGHT: 235.5 KG; PROCESS: HOT ROLLED; SPECIFICATION: BS 4360-1972 TABLE 6; GRADE: EN43	
5	78517	SEAT, VALVE: DIMENSIONS: ID 159 X OD 285 X THK 100 MM; MATERIAL: STL; DRAWING NO: 699P10079/D REV 1; SCHEDULE NO 74411490226; FOR USE ON NO 4 PED	
6	78518	NOZZLE, VALVE: MATERIAL: STL; DRAWING NO: 699P10079/D REV 1; REFERENCE NO: 74411490227; GEC SPINDLE, FOR USE WITH BOILER FEED PUMP TURBINE STEAM ADMISSION REGULATING; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
7	78519	STEM, VALVE: DIAMETER: 45 MM; LENGTH: 900 MM; MATERIAL: STL; DRAWING NO: 699P10079/D REV 1; NOZZLE, GEC SCHEDULE NO 74411490237 FOR USE ON NO 4 PED; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
8	17145	SHEET, METAL: WIDTH: 1.225 M; LENGTH: 2.45 M; THICKNESS: 3 MM; MATERIAL: MS GR EN43A; FABRICATION METHOD: HOT ROLLED; SPECIFICATION: BS 4360; 1 EACH= 72.38 KG	
9	17174	ANGLE, STRUCTURAL: LEG LENGTH: 40 MM; MATERIAL THICKNESS: 6 MM; LENGTH: 6 M; MATERIAL: MS; PROCESS: HOT ROLLED; WEIGHT: 3.52 KG/M; SPECIFICATION: BS 4360; GRADE: EN43A; 21.12 KG/LENGTH	
10	17191	ANGLE, STRUCTURAL: LEG LENGTH: 25 MM; MATERIAL THICKNESS: 5 MM; LENGTH: 6 M; MATERIAL: MS; PROCESS: HOT ROLLED; WEIGHT: 1.77 KG/M; SPECIFICATION: SABS 1431; GRADE: 300WA 43A	

11	50877	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 26.9 MM; WALL THICKNESS: 5 MM; MATERIAL: STL ALLOY 15MO3 HOT DRAWN; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN; FLOW 48; GRADE: 3; SPECIFICATION: DIN 50049; EN 10216-2; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO TYPE 3.01 A OR 3.1 C, ALL TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH, END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EACH, COLOUR CODE RED, EN3.2 DOCUMENT CERTIFICATE ACCORDING TO EN10204	
12	50878	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 38 MM; WALL THICKNESS: 4 MM; MATERIAL: STL ALLOY 15MO3 HOT DRAWN; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN SQ CUT; TYPE: FLOW 80, 81; GRADE: 3; SPECIFICATION: DIN 50049; EN 10216-2; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO T YPE 3.1.A OR 3.1.C, ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH OF THE TUBE, END CAPS TO BE FITTED, COLOUR CODE RED, EN3.2 DOCUMENT CERTIFICATE ACCORDING TO EN10204	
13	50879	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 38 MM; WALL THICKNESS: 4 MM; MATERIAL: STL ALLOY CR13MO44 HOT DRAWN; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN SQ CUT; TYPE: FLOW 82; GRADE: 3; SPECIFICATION: DIN 50049; EN 10216-2; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO TY PE 3.1.A OR 3.1.C, ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH, END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EACH TUBE, COLOUR CODE SILVER, EN3.2 DOCUMENT CERTIFICATE ACCORDING TO EN10204	
14	50880	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 38 MM; WALL THICKNESS: 4.5 MM; MATERIAL: STL ALLOY CR10MO910 HOT DRAWN; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN SQ CUT; TYPE: FLOW 83, 84/91; GRADE: 3; SPECIFICATION: DIN 50049; EN 10216-2; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO TYPE 3.1.A OR 3.1.C, ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH, END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EACH TUBE, COLOUR CODE GREEN, EN3.2 DOCUMENT CERTIFICATE ACCORDING TO EN10204	
15	50881	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 38 MM; WALL THICKNESS: 4.5 MM; MATERIAL: STL ALLOY CR13MO44 HOT DRAWN; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN; TYPE: FLOW 90; GRADE: 3; SPECIFICATION: DIN 50049; EN 10216-2; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO TYPE 3. 1 A OR 3.1 C, ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH OF TH E TUBE, END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EACH TUBE, COLOUR CODE SILVER, EN3.2 DOCUMENT CERTIFICATE ACCORDING TO EN10204	

16	50887	TUBE, METALLIC: OUTSIDE DIMENSION: 44.5 MM; WALL THICKNESS: 5.6 MM; LENGTH: 6 M; MATERIAL: 15MO3 HOT DRAWN; STRUCTURE: SMLS; SPECIFICATION: DIN 50049; INSIDE DIAMETER: 38.9 MM; TYPE: FINNED; GRADE 3; EN 3.2 CERT; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO TYPE 3.1 A OR 3.1 C; ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH OF THE TUBE, END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EACH TUBE, COLOUR CODE RED	
17	50888	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 48.3 MM; WALL THICKNESS: 3.6 MM; MATERIAL: STL ALLOY CR10MO910 HOT DRAWN; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN SQ CUT; TYPE: FLOW 115, 116; GRADE: 3; SPECIFICATION: DIN 50049; EN 10216-2; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO DIN 50049 TYPE 3.1.A OR 3.1.C, ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH OF THE TUBE, END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EACH TUBE, COLOUR CODE GREEN, EN 3.2 DOCUMENT CERTIFICATE ACCORDING TO EN10204	
18	50892	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 51 MM; WALL THICKNESS: 3.6 MM; MATERIAL: STL ALLOY CR10MO910 HOT DRAWN; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN; TYPE: FLOW 111, 114; GRADE: 3; SPECIFICATION: DIN 50049; EN 10216-2; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO TYPE 3.1 A OR 3.1 C, ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGT H, END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EACH TUBE, COLOUR CODE GREEN, EN3.2 DOCUMENT CERTIFICATE ACCORDING TO EN10204	
19	50893	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 51 MM; WALL THICKNESS: 5.6 MM; MATERIAL: 15MO3 HOT DRAWN; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN; TYPE: FLOW 10, 13; GRADE: 3; SPECIFICATION: DIN 50049; EN 10216-2; FINNED TUBES, TOTAL THICKNESS 65MM, TEST CERTIFICATES TO BE SUPPLIE D ACCORDING TO TYPE 3.1 A OR 3.1 C, ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH OF THE TUBE, END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EACH TUBE, COLOUR CODED RED, EN3.2 DOCUMENT CERTIFICATE ACCORDING TO EN10204	

20	50977	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 44.5 MM; WALL THICKNESS: 5.6 MM; MATERIAL: STL ALLOY 15MO3 HOT DRAWN; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN; TYPE: FLOW 39; GRADE: 3; SPECIFICATION: DIN 50049; EN 10216-2; DRAWING NO: STEIN/M-KIE 26207C REV 1; SLING, WITH SQUIRE ENDS, TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO TYPE 3.1.A OR 3.1.C, ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH OF THE TUBE, END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EACH TUBE, COLOUR CODE RED, EN3.2 DOCUMENT CERTIFICATE ACCORDING TO EN10204	
21	51080	WYE: TYPE: BIFURCATION; SIZE: OD 44.5 MM; MATERIAL: 13CRMO44; TO GO WITH BOILER TUBE; WALL THK 5.6 MM; TO BE DELIVERED WITH A DIN 50049-3.1 A / 3.1C OR EN10204 3.2; MATERIAL CERTIFICATES TO BE SUPPLIED WITH DELIVERY; PIECES TO BE STAMPED EVERY 500 MM/VERIFIED BY THIRD PARTY STAMP	
22	52464	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 51 MM; WALL THICKNESS: MIN 5.6 MM; MATERIAL: 15MO3; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN; TYPE: ECONOMIZER; SPECIFICATION: EN10216-2; FLOW SCHEME 13, WALL TUBING, MATERIAL CERTIFICATES TO BE SUPPLIED WITH ALL TUBES, ALL TUBES TO BE CAPPED, ALL TUBES TO BE COLOUR CODED, ALL TUBES TO BE HARD STAMPED WITH LOW STRESS STAMPS, MATERIAL AND TEST CERTIFICATES TO BE ACCORDING TO BS EN 10204:2004 TYPE 3.2; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION AIA	

23	56210	<p>TUBE, BOILER STRAIGHT: NOMINAL SIZE: 38 MM; WALL THICKNESS: MIN 4 MM; MATERIAL: X20CRMV12-1/X20CRMV11-1; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN FLAT SQ CUT; TYPE: SUPERHEATER 3 AND 4; GRADE: 3; SPECIFICATION: EN10216-2; FLOW 100; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO BS EN 10204:2004 TYPE 3.2. COLOUR CODE BLUE; ALL TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP , AND COLOUR CODED ALONG THE WHOLE LENGTH OF THE END CAPS TO BE FITTED; HEAT NUMBERS MUST BE PRESENT ON EACH; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION AIA</p>	
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24	56211	<p>TUBE, BOILER STRAIGHT: NOMINAL SIZE: 38 MM; WALL THICKNESS: MIN 5 MM; MATERIAL: X20CRMV12-1/X20CRMV11-1; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN FLAT SQ CUT; TYPE: FLOW 92, 102; GRADE: 3; SPECIFICATION: EN10216-2; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO BS EN 10204: 2004 TYPE 3.2; ALL TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH OF THE END CAPS TO BE FITTED; HEAT NUMBERS MUST BE PRESENT ON EACH; COLOUR CODE BLUE; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION AIA</p>	
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25	56214	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 38 MM; WALL THICKNESS: MIN 6.3 MM; MATERIAL: X20CRM0V12-1/XCRM0V1-1; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN FLAT SQ CUT; TYPE: FLOW 104, 105; GRADE: 3; SPECIFICATION: EN10216-2; ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WOLE LENGTH OF THE TUBE END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EAC H TUBE, COLOUR CODE BLUE, TEST CERTIFICATE TO BE SUPPLIED ACCORDING TO BS EN 10204:2004 TYPE 3.2; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION AIA	
26	86698	ROD, THREADED: DIAMETER: 16 MM; THREAD: 2 MM; LENGTH: 3 M; MATERIAL: STL; PROCESS: HOT ROLLED	
27	87700	WASHER, FLAT: NOMINAL SIZE: M10; INSIDE DIAMETER: 12 MM; OUTER SIZE: 21 MM; THICKNESS: 2 MM; MATERIAL: STL; SPECIFICATION: SABS 4320-1968 TABLE 3 FORM E	
28	89576	NUT, HEX: DIAMETER: M6; THREAD: 1 MM; MATERIAL: SS GR 316; ISO COARSE THREAD MEDIUM FIT; TO THE LATEST EDITION OF SABS136	
29	89577	NUT, HEX: DIAMETER: M8; THREAD: 1.25 MM; NUT HEIGHT: 6 MM; MATERIAL: SS GR 316; SPECIFICATION: SABS 136	
30	92129	PIN, COTTER SPLIT: DIAMETER: 4 MM; LENGTH: 50 MM; MATERIAL: STL; SABS796:1971:TABLE 4; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
31	162464	PLATE, METAL: DIMENSIONS: WD 2 M X LG 4 M X THK 6 MM; WIDTH: 2 M; LENGTH: 4 M; THICKNESS: 6 MM; MATERIAL: 15MO3; WEIGHT: 640 KG; PROCESS: HOT ROLLED; FLAT STEEL, MATERIAL TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO DIN 50049 TYPE 3.1.A OR 3.1.C, ALL PLATES TO BE HARD STAMPED WITH HEAT NUMBERS	

32	162576	PLATE, METAL: DIMENSIONS: WD 1.25 M X LG 2.5 M X THK 10 MM; MATERIAL: 15MO3; WEIGHT: 360 KG; PROCESS: HOT ROLLED; FLAT STEEL, NOTE! MATERIAL CERTIFICATES TO BE SUPPLIED AND PLATES TO BE MARKED	
33	225683	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 51 MM; WALL THICKNESS: 5.6 MM; MATERIAL: STL ALLOY 15MO3 HOT DRAWN; LENGTH: 8 M; STRUCTURE: SMLS; ENDS: CAPS PLASTIC ENDS; TYPE: TEST CATEGORY 2 (TC2); SPECIFICATION: EN10216-2; MATERIAL TO COMPLY WITH ESKOM STANDARD 240-240-87733094 REV 3; 15MO3; RESISTANCE WELDING TO TUBES AT 20MM CENTRES (DRAWING AVAILABLE); SEAMLESS ACCORDING TO EN 10216-2; RED OXIDE CORROSION PROTECTION LAYER ON TUBE AND FINS. 3.2 CERTIFICATION IAW EN 10204:2004 ; MATERIAL SUPPLIED WITH H FIN SIZE 120MM X 3MMTHK; FIN GAP 20MM CENTRE TO CENTRE APART; ALL TUBING TO BE STENCILED AND VERIFIED BY THIRD PARTY DELIVERY; DELIVERY COST TO TUTUKA POWER STATION INCLUDE	
34	598158	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 26.9 MM; WALL THICKNESS: 5 MM; MATERIAL: 16MO3; LENGTH: 6-11.8 M; STRUCTURE: SMLS; TYPE: SIDEWALLS/SUPERHEATER 1; DELIVER AS PER SPEC UNIQUE IDENTIFIER: 474-10206 REV 2; EN 10204 3.2; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION AIA	

35	598214	<p>TUBE, BOILER STRAIGHT: NOMINAL SIZE: 51 MM; WALL THICKNESS: 3.6 MM; MATERIAL: 10CRMO9-10; LENGTH: 6-11.8 M; STRUCTURE: SMLS; DELIVER AS PER SPEC UNIQUE IDENTIFIER: 474-10206 REV 2; EN10204 3.2; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION AIA</p>	
36	598217	<p>TUBE, BOILER STRAIGHT: NOMINAL SIZE: 48.3 MM; WALL THICKNESS: 3.6 MM; MATERIAL: 10CRMO9-10; LENGTH: 6-11.8 M; STRUCTURE: SMLS; DELIVER AS PER SPEC UNIQUE IDENTIFIER: 474-10206 REV 2; EN10204 3.2; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION AIA</p>	

37	598258	<p>TUBE, BOILER STRAIGHT: NOMINAL SIZE: 51 MM; WALL THICKNESS: 5.6 MM; MATERIAL: 16MO3; LENGTH: 6-11.8 M; STRUCTURE: SMLS; DELIVER AS PER SPEC UNIQUE IDENTIFIER: 474-10206 REV 2; AS PER EN10204 3.2; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION AIA</p>	
38	598262	<p>TUBE, BOILER STRAIGHT: NOMINAL SIZE: 51 MM; WALL THICKNESS: 3.6 MM; MATERIAL: 16MO3; LENGTH: 6-11.8 M; STRUCTURE: SMLS; DELIVER AS PER SPEC UNIQUE IDENTIFIER: 474-10206 REV 2; EN10204 3.2; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION AIA</p>	

39	598266	<p>TUBE, BOILER STRAIGHT: NOMINAL SIZE: 44.5 MM; WALL THICKNESS: 4.5 MM; MATERIAL: 16MO3; LENGTH: 6-11.8 M; STRUCTURE: SMLS; DELIVER AS PER SPEC UNIQUE IDENTIFIER: 474-10206 REV 2; EN10204 3.2; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION AIA</p>	
40	598364	<p>TUBE, BOILER STRAIGHT: NOMINAL SIZE: 51 MM; WALL THICKNESS: 3.6 MM; MATERIAL: 13CRM04-5; LENGTH: 6-11.8 M; STRUCTURE: SMLS; DELIVER AS PER SPEC UNIQUE IDENTIFIER: 474-10206 REV 2; EN10204 3.2; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION AIA</p>	

41	598524	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 38 MM; WALL THICKNESS: 5 MM; MATERIAL: 16M03; LENGTH: 6-11.8 M; STRUCTURE: SMLS; TYPE: VERTICAL DIVISION SIDEWALL PENETRATION; DELIVER AS PER SPEC UNIQUE IDENTIFIER: 474-10206 REV 2; AS PER EN10204 3.2; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECT	
42	661626	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 38 MM; WALL THICKNESS: MIN 4.5 MM; MATERIAL: 20CRMV11-1; LENGTH: 7.2 M; STRUCTURE: SMLS; ENDS: PLAIN FLAT SQ CUT; TYPE: TEST CATEGORY 2 (TC2); SPECIFICATION: EN10216-2; TEST CERTIFICATE TO BE SUPPLIED ACCORDING TO BS EN 10204:2004 TYPES 3.2; ALL TUBING TO BE STENCILED AND VERIFIED BY THIRD PARTY; END CAPS TO BE FITTED. PURPLE STRIP ON TUBE FOR COLOUR CODING IDENTIFICATION. DELIVERY COST TO TUTUKA POWER STATION TO BE INCLUDED.	
43		BY THIRD PARTY; END CAPS TO BE FITTED. PURPLE STRIP ON TUBE FOR COLOUR CODING IDENTIFICATION. DELIVERY COST TO	
44		SHIELD, TUBE: DIMENSIONS: DIA 54.3 X LG 50 MM; STYLE: STRAIGHT; MATERIAL: SS GR310; PROTECTION SHIELD BANGLE; PROTECTING SHIELD TO COVER 180DEG AND THE BANGLE 180DEG + 10 DEG BOTH SIDES; RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE; QCP FOR PRESSING TO BE APPROVED BY ESKOM BEFORE COMMENCING WITH ANY MANIPULATION; MATERIAL: SS 310; DIMENSIONS: OD 54.5 X WT 3MM; EACH BANGLE AND SHIELD SHOULD BE HARD STAMPED; HEAT NUMBER WITH LOW STRESS STAMPS; MATERIAL CERTIFICATE 3.1 I.A.W REQUIRED ON EVERY DELIVERY; STANDARD EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	

45	665733	SHIELD, TUBE: DIMENSIONS: DIA 44.5 X LG 50 MM; STYLE: STRAIGHT; MATERIAL: SS GR310; DRAWING NO: TUT-PP-GEN-109 REV 0; 63.ST.SD.08.11 REV 0; PROTECTION SHIELD BANGLE; ID 44 X WALL THICKNESS 3MM; PROTECTING SHIELD TO COVER 180DEG AND THE BANGLE 180DEG + 10 DEG BOTH SIDES; RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE; QCP FOR PRESSING TO BE APPROVED BY ESKOM BEFORE COMMENCING WITH ANY MANIPULATION; MATERIAL: SS 310; DIMENSIONS: OD 44.5 X WT 3MM; EACH BANGLE AND SHIELD SHOULD BE HARD STAMPED; HEAT NUMBER WITH LOW STRESS STAMPS; MATERIAL CERTIFICATE 3.1 I.A.W REQUIRED ON EVERY DELIVERY; STANDARD EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
46	665734	SHIELD, TUBE: DIMENSIONS: DIA 56 X LG 50 MM; STYLE: STRAIGHT; MATERIAL: SS GR310; DRAWING NO: TUT-PP-GEN-111 REV 0; PROTECTION SLOTTED SHIELD BANGLE; ID 51 X WALL THICKNESS 3MM; PROTECTING SHIELD TO COVER 180DEG AND THE BANGLE 180DEG + 10 DEG BOTH SIDES; RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE; QCP FOR PRESSING TO BE APPROVED BY ESKOM BEFORE COMMENCING WITH ANY MANIPULATION; MATERIAL: SS 310; DIMENSIONS: OD 56 X WT 3MM; EACH BANGLE AND SHIELD SHOULD BE HARD STAMPED; HEAT NUMBER WITH LOW STRESS STAMPS; MATERIAL CERTIFICATE 3.1 I.A.W REQUIRED ON EVERY DELIVERY; STANDARD EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
47	665735	SHIELD, TUBE: DIMENSIONS: DIA 44 X LG 50 MM; STYLE: STRAIGHT; MATERIAL: SS GR310; PROTECTION SLOTTED SHIELD BANGLE; ID 38 X WALL THICKNESS 3MM; PROTECTING SHIELD TO COVER 180DEG AND THE BANGLE 180DEG + 10 DEG BOTH SIDES; RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE; QCP FOR PRESSING TO BE APPROVED BY ESKOM BEFORE COMMENCING WITH ANY MANIPULATION; MATERIAL: SS 310; DIMENSIONS: OD 44 X WT 3MM; EACH BANGLE AND SHIELD SHOULD BE HARD STAMPED; HEAT NUMBER WITH LOW STRESS STAMPS; MATERIAL CERTIFICATE 3.1 I.A.W REQUIRED ON EVERY DELIVERY; STANDARD EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	

48	665736	SHIELD, TUBE: DIMENSIONS: DIA 57 X LG 50 MM; STYLE: STRAIGHT; MATERIAL: SS GR310; PROTECTION SHIELD BANGLE; ID 51 X WALL THICKNESS 3MM; PROTECTING SHIELD TO COVER 180DEG AND THE BANGLE 180DEG + 10 DEG BOTH SIDES; RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE; QCP FOR PRESSING TO BE APPROVED BY ESKOM BEFORE COMMENCING WITH ANY MANIPULATION; MATERIAL: SS 310; DIMENSIONS: OD 57 X WT 3MM; EACH BANGLE AND SHIELD SHOULD BE HARD STAMPED; HEAT NUMBER WITH LOW STRESS STAMPS; MATERIAL CERTIFICATE 3.1 I.A.W REQUIRED ON EVERY DELIVERY; STANDARD EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE) .	
49	665739	SHIELD, TUBE: DIMENSIONS: DIA 50.5 X LG 50 MM; STYLE: STRAIGHT; MATERIAL: SS GR310; PROTECTION SLOTTED SHIELD BANGLE; ID 44.5 X WALL THICKNESS 3MM; PROTECTING SHIELD TO COVER 180DEG AND THE BANGLE 180DEG + 10 DEG BOTH SIDES; RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE; QCP FOR PRESSING TO BE APPROVED BY ESKOM BEFORE COMMENCING WITH ANY MANIPULATION; MATERIAL: SS 310; DIMENSIONS: OD 50.5 X WD 3MM; EACH BANGLE AND SHIELD SHOULD BE HARD STAMPED; HEAT NUMBER WITH LOW STRESS STAMPS; MATERIAL CERTIFICATE 3.1 I.A.W REQUIRED ON EVERY DELIVERY; STANDARD EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE) .	
50	665740	BRACKET: TYPE: U-BEND; MATERIAL: INCOLOY 800; DIMENSIONS: WD 60 X LG 200 X THK 4 MM; SPECIFICATION: EN10216-2; APPLICATION: SUPERHEATER SUPPORT; 180DEG BEND AT 100MM (CENTRE); MATERIAL CERTIFICATE EN10204 3.1 REQUIRED ON EVERY DELIVERY; MATERIAL TO BE HARD STAMPED 'O' WITH LOW STRESS STAMPS	
51	665751	BRACKET: TYPE: RETAINING; MATERIAL: INCOLOY 800; DIMENSIONS: WD 45 X LG 82 X THK 6 MM; SPECIFICATION: EN10216-2; APPLICATION: REHEATER LUG SUPPORT; MATERIAL CERTIFICATE 3.1A IS REQUIRED ON EVERY DELIVERY; I.A.W STANDARD EN1024 3.1; HARD STAMPED WITH LOW STRESS STAMPS; HEAT NUMBERS	
52	665752	LUG: TYPE: CASTLE; DIMENSIONS: WD 35 X HT 25 MM; MATERIAL: INCOLOY 800; RADIUS 24 MM; WALL THICKNESS: 12 MM; SMALL CASTLE LUG WITH 40 MM BASE SUPERHEATER 4; MATERIAL CERTIFICATE EN10204 3.1 IS REQUIRED; STANDARD EN10216-2	
53	26565	JOINT, UNIVERSAL: TYPE: PUMP; SIZE: ID (32 X 38) X OD 45 X LG 126 MM; MATERIAL: STL ALLOY; ME45/5109A; WITH 8MM DOWL HOLE; TYPE CD 9; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE) .	

54	53889	STABILIZER: TYPE: OIL BURNER SWIRLER; SIZE: ID 365 X OD 375 X WD 205 MM; MATERIAL: STAINLESS STEEL; DRAWING NO: LA2243D REV 1; REFERENCE NO: LD380500; ITEM 4C, FOR USE WITH PEABODY FIREFLY BURNER	
55	84600	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M20; LENGTH: 75 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 48 MM; THREAD: 2.5 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	
56	97825	TAPE: TYPE: WEBBING; DIMENSIONS: WD 40 MM X LG 30 M X THK 3 MM; MATERIAL: COTTON; COLOR: WHITE; SUPPL P/N: 105	
57	29153	BRACKET: TYPE: CHAIN ELEVATOR; MATERIAL: STL; DIMENSIONS: LG 2.33 M; SUPPL P/N: RHK-30013-030; BUCKETS ATTACHEMENT, ITEM 160	
58	31242	BEARING: TYPE: ROLLER, TAPER; INSIDE DIAMETER: 150 MM; OUTSIDE DIAMETER: 270 MM; WIDTH: 154 MM; STYLE: OPEN; MATERIAL: STL; SUPPL P/N: 02BX130GR; SET, DYNAMIC 1250000N AND STATIC 2280000N	
59	31721	BODY: TYPE: SLIDE BEARING; DIMENSIONS: WD 200 X THK 100 MM; MATERIAL: STL; SUPPL P/N: RHK-40003-010; FOR USE WITH DUST HANDLING PLANT BOOT STATION; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
60	34714	BEARING, PILLOW BLOCK: INSIDE DIAMETER: 130 MM; BOLT MOUNTING: 4; BOLT DIAMETER: 28 MM; BLOCK SIZE: WD 180 X LG 560 X HT 420 MM; SHAFT HEIGHT: 190 MM; ROLLING ELEMENT: ROLLER CYLINDRICAL; HOUSING MATERIAL: CI; SUPPL P/N: 02-BCP-130-GR; COOPER SPLIT PEDESTAL, COMPLETE WITH CARTRIDGE; DUTY: HEAVY	
61	37497	RAIL: TYPE: WEAR; DIMENSIONS: WD 60 X LG 217 X THK 20 MM; MATERIAL: STL MANGANESE; SUPPL P/N: AKNS-83071-020; DRAWING NO: RNS83071-02 REV 1; FOR USE WITH PRECIPITATOR TRANSVERSE CONVEYOR DRIVE STATION AND CONNECTION TROUGH OUTLET FRAME; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
62	37736	SPINDLE: TYPE: END STATION; DIAMETER: 22 MM; LENGTH: 360 MM; MATERIAL: STL; SUPPL P/N: BKT390/29014ZV; RNS-82001-810; DRAWING NO: UKZ10030 SHEET 32 REV 1; RIDGID END, L700 ML.06-1/2, INCLUDING THE SHAFT, IDLER, BEARINGS AND SHAFT SEALS, WITH TENSION ADJUSTER SYSTEM	
63	38397	PLATE: TYPE: LINER; DIMENSIONS: WD 40 X LG 1.296 M X THK 10 MM; MATERIAL: SS BENNOX 10/200; SPECIFICATION: ISO 9001; APPLICATION: CHAIN LINK; SUPPL P/N: AKNS-30006-040; RETURN, ITEM NUMBER: 118, FOR USE ON DUST HANDLING PLANT	

64	38402	BAR: TYPE: WEAR; DIMENSIONS: WD 60 X LG 628 X THK 20 MM; MATERIAL: STL MANGANESE; SUPPL P/N: RNS-85000-810; DRAWING NO: UKZ-10030 SHEET 22 REV 1; UKZ-10030 SHEET 22 ITEM 5 REV 1; INCLINE WEAR FOR CONNECTION TROUGH AT DRIVE STATION FOR HOPPER CONVEYOR, WITH WELDED STUDS ON	
65	38406	RAIL: TYPE: WEAR; DIMENSIONS: WD 60 X LG 881 X THK 20 MM; MATERIAL: STL MANGANESE; SUPPL P/N: RNS84028-81; DRAWING NO: UKZ-10045/05-B REV 1; USE WITH PRECIPITATOR TRANSVERE CONVEYOR DRIVE STATION AND CONNECTION TROUGH OUTLET FRAME, 1ST COLLECTOR CONVEYOR; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
66	38482	RAIL: TYPE: WEAR; DIMENSIONS: WD 60 X LG 125 X THK 20 MM; MATERIAL: STL MANGANESE; SUPPL P/N: AKNS-83012-060; DRAWING NO: UKZ-10030 SHEET 30 ITEM 7 REV 1; UKZ-10030 SHEET 30 REV 1; HOPPER CONVEYOR, TOP, WITH WELDED STUDS ON; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
67	38499	SHAFT: SUPPL P/N: RNS-30000-020; FOR USE ON DRIVE STATION AT DUST HANDLING PLANT; ITEM 77	
68	38502	RAIL, RAILROAD: LENGTH: 1.39 M; MATERIAL: STL MANGANESE; SUPPL P/N: AKNS-84014-810; BOTTOM AND RETURN WEAR, ITEM NUMBER: 101, FOR USE ON DUST HANDLING PLANT TROUGH SECTIONS	
69	38503	RAIL, RAILROAD: LENGTH: 1.29 M; MATERIAL: STL MANGANESE; SUPPL P/N: AKNS-84014-810; BOTTOM AND RETURN, ITEM NUMBER: 102, FOR USE ON TROUGH SECTIONS	
70	68781	SHIM, STOCK: THICKNESS: 2 MM; DIMENSIONS: WD 35 X LG 232 MM; MATERIAL: MS; SUPPL P/N: UNN-56039-138; TOLERANCE RING STAR, FOR USE ON BOOT STATION DUST HANDLING PLANT, ITEM 151; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
71	68782	SHIM, STOCK: THICKNESS: 2 MM; DIMENSIONS: WD 27 X LG 188 MM; MATERIAL: MS; SUPPL P/N: UNN-56039-144; TOLERANCE RING STAR, DUST HANDLING PLANT, PART FOR BOOT STATION, BUHLER-MIAG ITEM 152; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
72	89637	WASHER, FLAT: NOMINAL SIZE: M16; INSIDE DIAMETER: 17 MM; OUTER SIZE: 30 MM; THICKNESS: 3.3 MM; MATERIAL: STAINLESS STEEL; GRADE: 316; BOLT; ROUND SHAPE	
73	92625	PIN: DIAMETER: 25 MM; LENGTH: 92 MM; MATERIAL: STL; SUPPL P/N: AKCG-50316-010; 142V, BUHLER-MIAG, ONE RING MOUNTED, FOR USE WITH DUST HANDLING CONVEYOR CHAIN	
74	92861	PIN: TYPE: ELASTIC; DIAMETER: 6 MM; LENGTH: 35 MM; MATERIAL: STAINLESS STEEL; SUPPL P/N: UNN-18012-097; BUHLER-MIAG, FOR USE WITH CONVEYOR CHAIN DUST HANDLING PLANT	

75	112691	DISC: TYPE: STOP; DIMENSIONS: DIA 98 X THK 15 MM; MATERIAL: STL; SUPPL P/N: RHK-30100-020; FOR USE ON BUCKET ELEVATOR IDLER	
76	112692	RING: TYPE: DISTANCE; INSIDE DIAMETER: 74 MM; OUTSIDE DIAMETER: 88 MM; WIDTH: 35 MM; MATERIAL: STL; SUPPL P/N: RHK-30100-040; BUHLER-MIAG; FOR USE ON BOOT STATION DUST PLANT	
77	177203	CHUTE: TYPE: COAL; DIMENSIONS: DIA 610 X LG 781 MM; MATERIAL: STL; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
78	223513	MOTOR, ELECTRIC: POWER: 3 KW; SPEED: 1420/2.7 RPM; CURRENT: 7.4 A; POTENTIAL: 380 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP65; INSULATION CLASS: F; SERVICE FACTOR: S1; SUPPL P/N: D2A46HZCFG17-117/309K-ZWD; EBERHARD BAUER, TWO SPEED, 50HZ, POWER FACTOR COS 0.85, CONNECTION DELTA, SHAFT GEARED, H5-11B	
79	501129	MOTOR, GEARED: POWER: 16/32 KW; CURRENT: 34.3/58.5 A; OUTPUT SPEED: 16.254/32.96 RPM; RATIO: 90:1; POTENTIAL: 380 V; MOTOR SPEED: 720/1460 RPM; MOUNTING: FLANGE B5; PHASE: 3; ACCESSORIES: TORQUE ARM; CONNECTION LOCATION: TOP; DIRECTION: BI-DIRECTIONAL; INSULATION CLASS: F; SHAFT: DIA 125 X LG 458 MM; MOTOR TYPE: TEFC SQUIRREL CAGE; POLES: 8/4; SERVICE FACTOR: 2.93/2.89; TEMPERATURE CLASS: B; MANUF P/N: IGUB3DH08; REFERENCE NO: B3DH08; 1LG4223-4/8AA91-Z	
80	570519	SEAL: TYPE: DUST; DIMENSIONS: ID 110 X OD 135.4 X THK 9.5 MM; MATERIAL: RUBBER; APPLICATION: HOPPER CONVEYORS; REFERENCE NO: UVV-00120-799; GACO SPLIT; WITH COTTON REINFORCED NBR; SPRING AISI 302; OPERATING TEMP: -30 TO 120DEG C	
81	17087	BAR, FLAT: WIDTH: 65 MM; LENGTH: 6 M; THICKNESS: 10 MM; MATERIAL: MS BS 4360; PROCESS: HOT ROLLED; GRADE: EN43A; WEIGHT: 5.1 KG/M; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
82	161960	BAR, ROUND: NOMINAL DIAMETER: 76 MM; LENGTH: 3 M; MATERIAL: STL 070M20 BS970 PART 1; PROCESS: HOT ROLLED; GRADE: EN3B; WEIGHT: 37 KG/M	
83	17000	BOOTS, SAFETY: SIZE: 5; 240; TOE CONSTRUCTION TYPE: STL; COLOR: BROWN; MATERIAL: LEATHER; STYLE: 8031-03; TREAD SURFACE TYPE: PU DUAL DENSITY LIGHTWEIGHT, SOLVENT RESISTANT; SABS 1114; HEIGHT: ANKLE	
84	23459	VALVE: TYPE: STOP; BODY MATERIAL: STL; DRAWING NO: GEC R20226S2091/501 REV 1; SCHEDULE NUMBER 669P10079D	

85	23460	RING, PISTON: TYPE: COMPRESSOR; INSIDE DIAMETER: 160 MM; OUTSIDE DIAMETER: 172 MM; THICKNESS: 3 MM; MATERIAL: STL; DRAWING NO: GEC 699P10079/D REV 1; 699P10079/D REV 1; REFERENCE NO: 744I1490088; DESPATCHED SCHEDULE, FOR USE WITH BOILER FEED PUMP TURBINE NOZZLE VALVE ACTUATOR	
86	23461	WASHER, LOCK: INSIDE DIAMETER: 60 MM; MATERIAL: STL; DRAWING NO: 699P10079D REV 1; GEC 699P10079D REV 1; DS ITEM NUMBER: 744I149-0094; FOR USE ON BFPT OVERSPEED TRIP AND NV ACTUATOR; SIZE 95MM LG	
87	23462	PISTON: DIMENSIONS: DIA 165 X LG 450 MM; MATERIAL: STL; APPLICATION: BOILER FEED PUMP TURBINE; DRAWING NO: 699P10079D REV 1; GEC 699P10079D REV 1; REFERENCE NO: 744I1490095; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
88	23463	WASHER, THRUST: INSIDE DIAMETER: 103 MM; OUTSIDE DIAMETER: 155 MM; THICKNESS: 2.5 MM; MATERIAL: STL; DRAWING NO: GEC 626D10082 REV 1; SPECIAL DU; ORDER NUMBER TG8/SA/779037 ED 38760; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
89	23473	PAD, BEARING: TYPE: THRUST BEARING; DIMENSIONS: THK 12 MM; MATERIAL: STL; SUPPL P/N: 269/136LM; 296/136RM; DRAWING NO: 699P10079/D REV 1; REFERENCE NO: 296/136RM; SLIDING; TRUST; SCHEDULE NUMBER: 744I1490278; FOR USE ON BFPT THRUST BEARING; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
90	23475	PLATE: TYPE: RETAINING; DIMENSIONS: DIA 28 X THK 6 MM; MATERIAL: STL; APPLICATION: BFPT; OEM P/N: R20200F075/1, OEM: GE STEAM POWER SERVICE; DRAWING NO: DUVHA/TUTUKA 610A10288/15 REV 0; 699P10079/D REV 1; GEC SCHEDULE NUMBER 744I1490292	
91	23479	DISC, RUPTURE: DIAMETER: 600 MM; MATERIAL: STAINLESS STEEL; BURST PRESSURE: 46 KPA AT 20 DEG C; TYPE: SEALING RING; 690 MM OUTSIDE DIAMETER, 600 MM BURSTING AREA, 0.34 BAR AT PLUS MINUS 150 DEGREES CENTIGRADE, TEST CERTIFICATES TO BE SUPPLIED WITH DELIVERY	
92	23487	ORIFICE, PLATE: TYPE: UNIVERSAL; ORIFICE SIZE: 10 MM; DIMENSIONS: OD 137 X THK 3 MM; MATERIAL: STL; DRAWING NO: 642D10266/1/398 REV 1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
93	23488	ORIFICE, PLATE: TYPE: UNIVERSAL; ORIFICE SIZE: 8 MM; DIMENSIONS: SQ 65 X THK 4 MM; MATERIAL: STL; REFERENCE NO: NR20226F2225/1; ITEM NUMBER: 399; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	

94	25085	FILTER, ELEMENT: TYPE: CARTRIDGE OIL DISPOSABLE; DIMENSIONS: ID 75 X OD 170 X LG 430 MM; MATERIAL: FELT; SUPPL P/N: C6360229; REFERENCE NO: 6360229; FOR USE ON LUB SYSTEM	
95	25086	FILTER, ELEMENT: TYPE: OIL; DIMENSIONS: ID 75 X OD 170 X LG 430 MM; MATERIAL: FELT; SUPPL P/N: C6370812; VOKES HIGH PERFORMANCE CARTRIDGE, POWER	
96	25266	COUPLING, SHAFT: TYPE: GEAR; BORE: 100 MM; OUTSIDE DIAMETER: 160 MM; LENGTH: 560 MM; MATERIAL: STL; GRADE: HT; SPECIFICATION: ISO 9001; SUPPL P/N: ZLS2; FOR STEAM FEED PUMP TO BOOSTER PUMP MAAG GEARBO	
97	25668	COUPLING, SHAFT: TYPE: GEAR; BORE: TAPER, CYLINDRICAL; OUTSIDE DIAMETER: 275 MM; LENGTH: 490 MM; MATERIAL: STL; GRADE: GUN STL; HOLE SIZE: 15 MM; HOLE: 16; SPECIFICATION: ISO 9001; SUPPL P/N: 704-0266-02-2; ZES-6/5-YK; FOR USE BETWEEN FEED PUMP AND TURBOGEAR	
98	26462	COUPLING, SHAFT: TYPE: GEAR; BORE: 250 MM; OUTSIDE DIAMETER: 430 MM; LENGTH: 245 MM; MATERIAL: STL; HOLE SIZE: NILL; HOLE: NILL; PCD: NILL; SPECIFICATION: ISO 9001; DRAWING NO: 706.002/13.01 REV 1; REFERENCE NO: ZNX F10; FOR 50 PCT BOILER FEED PUM	
99	28426	GEAR, SPUR: TYPE: PLAIN; TEETH: 11; OUTSIDE DIAMETER: 115 MM; FACE WIDTH: 118 MM; MATERIAL: STL; DRAWING NO: 699P10079D REV 1; REFERENCE NO: 744I1490260; AND SHAFT, TO GEC ITEM 402, FOR USE WITH BOILER FEED PUMP TURBINE MAIN OIL PUMP; DIAMETRAL PITCH: 0.113; PITCH DIAMETER: 97.3MM	
100	28427	GEAR, SPUR: TYPE: PLAIN; TEETH: 11; OUTSIDE DIAMETER: 117 MM; BORE: 44 MM; FACE WIDTH: 25 MM; MATERIAL: STL; DRAWING NO: GEC 699P10079D REV 1; REFERENCE NO: 744I149-0262; PUMP; FOR USE WITH BOILER FEED PUMP TURBINE POWER OIL PUMP; DIAMETRAL PITCH: 0.111; PITCH DIAMETER: 99MM	
101	31969	BEARING, SLEEVE: TYPE: JOURNAL; INSIDE DIAMETER: 175 MM; OUTSIDE DIAMETER: 212 MM; LENGTH: 89 MM; MATERIAL: WHITE METAL BABBITTED; REFERENCE NO: 610A1-10430-1; FOR USE WITH BOILER FEED PUMP TURBINE STEAM END	
102	34219	SLEEVE: TYPE: CONTROL; DIMENSIONS: ID 35 X OD 80 X LG 415 MM; MATERIAL: BRZ; APPLICATION: GEARBOX; SPECIFICATION: ISO 9001; SUPPL P/N: TCR40415440; MODEL NO: R110KGS; FOR USE ON VOITH TURBO GEARBOX	
103	42766	BUSH: TYPE: GUIDE; INSIDE DIAMETER: 50 MM; OUTSIDE DIAMETER: 180 MM; LENGTH: 230 MM; MATERIAL: STL; APPLICATION: GEARBOX; SPECIFICATION: ISO 9001; SUPPL P/N: TCR40414790; MODEL NO: R110KGS	
104	42960	RING: TYPE: SCRAPER; INSIDE DIAMETER: 48 MM; OUTSIDE DIAMETER: 57 MM; WIDTH: 7 MM; MATERIAL: NEOPRENE; GRADE: BUNA; APPLICATION: GEARBOX; RATING: 5.25 MPA; STYLE: ROUND; COLOR: UNPAINTED; SPECIFICATION: ISO 9001; SUPPL P/N: TCR49925306; MODEL NO: R110KGS; FOR USE ON VOITH GEARBOX	

105	45136	ASSEMBLY: TYPE: SCOOP TUBE; SUPPL P/N: TCR40346360; MODEL NO: R110KGS; FOR USE ON VOITH GEARBOX	
106	45659	STRAINER: TYPE: SUCTION; MATERIAL: STAINLESS STEEL; MODEL NO: HZB253-640; FOR 50 PCT BOOSTER	
107	45660	STRAINER: TYPE: SUCTION; DIMENSIONS: OD 1.09 X WD 1 M; MATERIAL: STL; MODEL NO: HZB302-580; REFERENCE NO: 1-104-600-664; FOR SULZER FEED PUMP	
108	45919	ROD: TYPE: SCOOP TUBE CONTROL; DIMENSIONS: DIA 5 X LG 425 MM; MATERIAL: STL; APPLICATION: GEARBOX; SPECIFICATION: ISO 9001; SUPPL P/N: TCR40414620; MODEL NO: R110KGS; FOR USE ON VOITH GEARBOX	
109	45921	ROD: TYPE: OIL CONTROL; DIMENSIONS: DIA 5 X LG 265 MM; MATERIAL: STL; APPLICATION: VOITH GEARBOX; SPECIFICATION: ISO 9001; SUPPL P/N: TCR40414610; MODEL NO: R110KGS; FOR USE ON VOITH GEARBOX	
110	49020	PUMP: TYPE: WORKING OIL; SIZE: DN 65; CAPACITY: 18.33 L/S; SPEED: 48.5 RPM; RATING: 3.5 BAR; DRIVER: ELECTRIC MOTOR; SPECIFICATION: ISO 9001; FURNISHED ITEMS: STAND; CASING MATERIAL: CAST STEEL; APPLICATION: GEARBOX; SUPPL P/N: DMY000107; DRAWING NO: 3.623.6899 REV 1; MODEL NO: R110KGS; ETA65-20VL; REFERENCE NO: 00010041031; DRIVER WITHOUT MOTOR	
111	67569	DISC, VALVE: MATERIAL: STL; VALVE STYLE: PLUG; DIMENSIONS: DIA 43.5 X WD 30 MM; VALVE SIZE: 1-1/4 IN; SUPPL P/N: 32332-140; FOR HOPKINSON; FEMALE	
112	67640	SPRING, COMPRESSION: INSIDE DIAMETER: 74 MM; OUTSIDE DIAMETER: 98 MM; LENGTH: 95 MM; MATERIAL: STAINLESS STEEL; SUPPL P/N: 5H530-59E 668.0317; DISC, ITEM NO: 6680317, FOR USE WITH DEWRANCE VALVE, P34 ER 500 BDRA; PRESSURE RATING: 300 LB; VALVE SIZE: 500 MM	
113	67665	VALVE, CHECK: TYPE: TILTING DISC; VALVE SIZE: 80 MM; DESIGN RATING: 1500 LB; TEMPERATURE RATING: 3705 PSI AT 100 DEG F; CONNECTION: BW; BODY MATERIAL: STL ASTM A105 FORGED; STYLE: BOLTED CAP; TRIM: DISC/SEAT HF; GRADE: WCB; REFERENCE NO: F73DZ080NFDA; DEWRANCE NON RETURN	
114	67668	DISC, VALVE: MATERIAL: STL; VALVE STYLE: CHECK; DIMENSIONS: DIA 380 X THK 60 MM; REFERENCE NO: 54530-58D	
115	68907	SEAT, VALVE: DIMENSIONS: OD 475 X WD 90 MM; MATERIAL: STL; SUPPL P/N: 75/0072 ST/1 WCB LB MI; REFERENCE NO: 1165A	
116	78510	PISTON: TYPE: PILOT VALVE; DIMENSIONS: DIA 25.4 X LG 103 MM; MATERIAL: STEEL; OEM P/N: 626D10193/1, OEM: GE STEAM POWER SERVICE; DRAWING NO: 626X10214/7 REV F; 699P10079/D REV 1; GEC SCHEDULE NO: 74411490087, FOR BEPT NOZZLE VALVE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	

117	78511	PISTON: DIMENSIONS: DIA 1 X LG 2 IN; MATERIAL: STL; DRAWING NO: 699P10079/D REV 1; REFERENCE NO: N626D10191-1; GEC SCHEDULE NUMBER:626D10191/1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE) .	
118	80227	TAP SET, THREAD CUTTING: TAP SIZE: M45; THREAD: 1.5 MM; MATERIAL: HSS; QUANTITY: 3; TYPE: TAPER; SECOND; BOTTOM; HAND	
119	82528	SCREW, CAP: DIAMETER: M6; LENGTH: 12 MM; THREAD: 1 MM; HEAD: SOCKET HEX; MATERIAL: STL	
120	84216	BOLT: TYPE: COUPLING 1=1 EA; DIAMETER: M16; LENGTH: 62 MM; HEAD: D; GRADE: HT; MATERIAL: STL; THREAD: 2 MM; SPECIFICATION: BS 1506; PROTECTIVE COATING: NONE; FURNISHED ITEMS: NUT; SUPPL P/N: 704-0265-02-2; MODEL NO: ZES-8/7YK; FOR USE ON MAAG GEAR COUPLING; GRADE 621B	
121	84307	BOLT: TYPE: COUPLING; DIAMETER: 12 MM; LENGTH: 28 MM; HEAD: HALF RD; GRADE: 12.9; MATERIAL: HTS; THREAD: 1.25 MM; THREAD LENGTH: 14 MM; SPECIFICATION: ISO 9001; PROTECTIVE COATING: TECTILE; FURNISHED ITEMS: SELLOCK NUT; SUPPL P/N: 706 5200.08.4; MODEL NO: ZLS2	
122	84308	BOLT: TYPE: COUPLING 12/SET; DIAMETER: M6; LENGTH: 12 MM; MODEL NO: ZLS-2; WASHER, FOR MAAG GEAR COUPLING , TO BE SUPPLIED AS A SE	
123	84613	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M24; LENGTH: 100 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 57 MM; THREAD: 3 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; COARSE THREAD FREE FIT.; SPECIFICATION: SABS 135	
124	91872	WASHER, TAB: TYPE: 3 TAB; INSIDE DIAMETER: 5/8 IN; OUTSIDE DIAMETER: 1 IN; THICKNESS: 1/32 IN; MATERIAL: STAINLESS STEEL; DRAWING NO: GEC 699P10079D REV 1; FOR USE ON OVERSPEED TRIP AND NV ACTUATOR	
125	93466	PIN: TYPE: SCOOP TUBE CONTROL; DIAMETER: 45 MM; LENGTH: 344 MM; MATERIAL: STL; SPECIFICATION: ISO 9001; SUPPL P/N: TCR40303520; MODEL NO: R110KGS; FOR USE ON VOITH GEARBOX	
126	107913	SEAL, OIL: INSIDE DIAMETER: 68.5 MM; OUTSIDE DIAMETER: 92.5 MM; WIDTH: 9.5 MM; MATERIAL: RUBBER; SPRING LOADED: NO; REFERENCE NO: D1275; SCRAPER	
127	107914	GASKET, PRE CUT: DIMENSIONS: WD 240 X LG 650 X THK 1 MM; MATERIAL: KLINGERITE; SHAPE: RECT; DRAWING NO: GEC 699P10079D REV 1; REFERENCE NO: 202203; SCHEDULE NUMBER: 744I149-0092, 0093	
128	110224	SPRING, COMPRESSION: INSIDE DIAMETER: 13 MM; OUTSIDE DIAMETER: 19 MM; LENGTH: 27 MM; MATERIAL: STAINLESS STEEL; REFERENCE NO: C8315-301; DISC; FOR USE WITH HOPKINSON SIZE 100MM NOMINAL BORE PARALLEL SLIDE VALVE; VALVE SIZE: 100 MM	

129	111999	SPRING, COMPRESSION: INSIDE DIAMETER: 117 MM; OUTSIDE DIAMETER: 151 MM; LENGTH: 195 MM; COILS: 6; MATERIAL: STL; DRAWING NO: 699P10079D REV 1; GEC; SCHEDULE NUMBER: 744I149-0089	
130	112005	SPRING, COMPRESSION: INSIDE DIAMETER: 70 MM; LENGTH: 2.76 M; COILS: 11; MATERIAL: STL; DRAWING NO: 699P10079D REV 1; GEC ITEM NUMBER: 388, SCHEDULE NUMBER: 744I149-0249	
131	112006	SPRING, COMPRESSION: INSIDE DIAMETER: 35 MM; OUTSIDE DIAMETER: 48 MM; LENGTH: 153 MM; COILS: 13; MATERIAL: STL; DRAWING NO: 699P10079D REV 1; GEC; SCHEDULE NUMBER: 744I149-0251	
132	112007	SPRING, COMPRESSION: INSIDE DIAMETER: 25 MM; OUTSIDE DIAMETER: 44 MM; LENGTH: 145 MM; COILS: 13; MATERIAL: STL; DRAWING NO: 699P10079D REV 1; GEC ITEM NUMBER: 391, SCHEDULE NUMBER: 744I149-0252 AND 0254	
133	112008	SPRING, COMPRESSION: LENGTH: 35 MM; COILS: 12; MATERIAL: STL; DRAWING NO: 699P10079D REV 1; REFERENCE NO: 744I149-0283; TO GEC ITEM 392, DESPATCHED; FOR USE WITH OIL CONSOLE; SIZE: 10MM DIA	
134	112009	SPRING, COMPRESSION: INSIDE DIAMETER: 35 MM; OUTSIDE DIAMETER: 49 MM; LENGTH: 152 MM; COILS: 12; MATERIAL: STL; DRAWING NO: 699P10079D REV 1; GEC; SCHEDULE NUMBER: 744I149-0256	
135	112010	SPRING, COMPRESSION: INSIDE DIAMETER: 51 MM; OUTSIDE DIAMETER: 60 MM; LENGTH: 126 MM; COILS: 8; MATERIAL: STL; DRAWING NO: 699P10079/D REV 1; GEC ITEM NO: 393, SCHEDULE NO: 74411490254, FOR USE ON HP NOZZLE AND CYL	
136	112011	SPRING, COMPRESSION: INSIDE DIAMETER: 64 MM; OUTSIDE DIAMETER: 75 MM; LENGTH: 149 MM; COILS: 8; MATERIAL: STL; SUPPL P/N: 2J 4111	
137	177564	BUNDLE: TYPE: EFP WORKING OIL COOLER; TUBES PER BUNDLE: 690; TUBE SIZE: ID 10MM X OD 12MM X LG 2.745M; MATERIAL: CUZN20AIF34; REFERENCE NO: M6- SS108-2; TUBE BUNDLE; EFP WORKING	
138	177565	COOLER: TYPE: EFP WORKING OIL; DIMENSIONS: DIA 500 MM X LG 3.25 M; RATING: 6 BAR AT 120 DEG C; SERIES: M6-SS108-2; COMPLETE WITH SHELL AND WATER BOXES, WATER BOX MATERIAL 316 SS, MAX TEMP 150 DEG C, 690 TUBES PER BUNDLE, TUBE SIZE 10 MM X 12 MM X 2.745 M LONG, MATERIAL CUZN20AIF34; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
139	177572	BUNDLE: TYPE: EFP LUBE OIL COOLER; TUBES PER BUNDLE: 490; TUBE SIZE: ID 10 MM X OD 12 MM X LG 3.045 M; MATERIAL: TUBE: CUNI30FEF37 SERCUNIK; DRAWING NO: 2-35944 REV 0; MODEL NO: R110KGS; REFERENCE NO: M6-SS120-2; 5681-5602; TUBE PLATE MATERIAL: CUA110NI; TUBE PLATE EXPANSION END: 25MM; TUBE PLATE FIXED END: 20MM	

140	177573	COOLER: TYPE: EFP LUBE OIL; DIMENSIONS: DIA 450 MM X LG 3.045 M; RATING: 6 BAR AT 120 DEG C; SERIES: 5681-5602; DRAWING NO: 2-35944 REV 0; MODEL NO: R110KGS; REFERENCE NO: 5681-5602; M6-SS120-2; BUNDLE: TYPE: EFP LUBE OIL COOLER, COMPLETE WITH SHELL AND WATER BOXES, WATER BOX MATERIAL 316 SS; TUBES PER BUNDLE: 490, WORKING PRESS: 6 BAR, MAX TEMP: 100 DEG, TUBE SIZE: ID 10 MM X OD 12 MM X LG 3.045 M; MATERIAL: TUBE: CUNI30FEF37 SERCUNIK, TUBE PLATE MATERIAL: CUA110NI, TUBE PLATE EXPANSION END: 25 MM, TUBE PLATE FIXED END: 20 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
141	178031	VALVE, CHECK: TYPE: SWING; VALVE SIZE: 300 MM; DESIGN RATING: 39 MPA G; TEMPERATURE RATING: 145 DEG C; CONNECTION: BUTT WELD; BODY MATERIAL: 15NICU MON65; FACE TO FACE LENGTH: 1.7 M; OPERATED: NRV; STYLE: BOLTED CAP; TRIM: STL; SOFTGOODS: GRAPHITE; APPLICATION: BOILER FEED WATER PUMP; SUPPL P/N: 103-157-157-000; RSK280/25; CONSISTING OF: HOUSING; COVER; PRESSURE SEAL PLUG; BOLTS AND NUT	
142	178032	VALVE, CHECK: TYPE: SWING; VALVE SIZE: 400 MM; CONNECTION: BW; BODY MATERIAL: STL; STYLE: BOLTED CAP; TRIM: DISC STL; SUPPL P/N: RSK380/25; REFERENCE NO: 103-157-473-000; CONSISTING OF: HOUSING; COVER; PRESSURE SEAL PLUG; BOLTS AND NUT	
143	178159	VALVE, GATE: VALVE SIZE: 400 MM; TYPE: PARALLEL SLIDE; CONNECTION: BW; BODY MATERIAL: 1-1/4CR1/2MO FORGED; OPERATED: HANDWHEEL; STEM DESIGN: RISING SPINDLE; STYLE: BOLTED BONNET; DESIGN RATING: 250 BAR; SUPPL P/N: P71H; DEWRANCE; FOR USE ON LOW	
144	178162	VALVE, GATE: VALVE SIZE: 16 IN; TYPE: PARALLEL SLIDE; CONNECTION: BW; BODY MATERIAL: A216; TRIM: SEAT NI ALLOY; OPERATED: HANDWHEEL; SOFTGOODS: PACKING CARBON FIBER/GRAPHITE; STEM DESIGN: RISING SPINDLE; STYLE: BOLTED BONNET; TEMPERATURE RATING: 112 BAR AT 475 DEG C; GRADE: WCB; DESIGN RATING: 420 BAR; VENTURI	
145	178163	VALVE, GATE: VALVE SIZE: 400 MM; TYPE: PARALLEL SLIDE; CONNECTION: BW; TRIM: SEAT NI MO ALLOY; OPERATED: HANDWHEEL; SOFTGOODS: PACKING CARBON FIBER/GRAPHITE; STEM DESIGN: RISING SPINDLE; STYLE: BOLTED BONNET; TEMPERATURE RATING: 112 BAR AT 475 DEG C; DESIGN RATING: 420 BAR; VENTURI	
146	179609	GLAND, PACKING: DIMENSIONS: ID 47 X OD 67.5 X THK 100 MM; TYPE: LIVE LOADING CARTRIDGE; MATERIAL: GRAPHITE; SUPPL P/N: AES/47X67.5/CAR/DIE/PRE/C/340/360; TO BE BOXED, WRAPPED AND DUST SEALED TO PREVENT ANY DAMAGE	
147	180211	PLUG, VALVE: VALVE STYLE: NON RETURN; MATERIAL: STEEL; SUPPL P/N: 119-023-062-217; RSK280/25	

148	180213	PLUG, VALVE: VALVE STYLE: NRV; VALVE SIZE: 380 MM; MATERIAL: STL; SUPPL P/N: RSK380/25; 119-023-062-206; PRESSURE SEAL; FOR USE ON NON-RETURN	
149	180215	LEVER: TYPE: VALVE FLAP; MATERIAL: STL; SUPPL P/N: 119-023-062-215; RSK280/25; FOR USE ON NON RETURN VALVE RSK280/25; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE) .	
150	180218	SEAT, VALVE: VALVE STYLE: NON RETURN; VALVE SIZE: 250 MM; MATERIAL: STL; SUPPL P/N: RSK280/25; REFERENCE NO: 119-023-062-214; 5	
151	180219	SEAT, VALVE: VALVE STYLE: NON RETURN; VALVE SIZE: 380 MM; MATERIAL: STL; MODEL NO: RSK380/25; REFERENCE NO: 5; 119-023-062-210	
152	180221	PIN: TYPE: NRV; DIAMETER: 35 MM; LENGTH: 172 MM; MATERIAL: X20CE13; SPECIFICATION: ISO 9001; SUPPL P/N: RSK280/25; 119-023-062-219; FOR USE ON NON-RETURN VALVE RSK280/25	
153	180222	PIN: TYPE: NRV; DIAMETER: 35 MM; LENGTH: 192 MM; MATERIAL: X20CE13; SPECIFICATION: ISO 9001; SUPPL P/N: 119-023-062-209; RSK380/25; FOR USE ON NON-RETURN VALVE RSK380/25	
154	180224	BUSH, VALVE: TYPE: PIVOT; VALVE SIZE: 280 MM; MATERIAL: STL; INSIDE DIAMETER: 35 MM; OUTSIDE DIAMETER: 45 MM; LENGTH: 80 MM; SPECIFICATION: ISO 9001; MODEL NO: RSK280/25; REFERENCE NO: 119-023-062-216; FOR USE ON NON RETURN VALVE; LENGTH: 80MM	
155	180226	PACKING: TYPE: BONNET; LENGTH: 30 MM; WIDTH: 360 MM; MATERIAL: GRAPHITE; SHAPE: RD; THICKNESS: 30 MM; SPECIFICATION: ISO 9001; DIAMETER: ID 320 X OD 360 MM; MODEL NO: RSK280/25; REFERENCE NO: 119-023-062-317; ITEM TO BE PACKED WITH HARD BACKING TO PREVENT DAMAGE	
156	180228	WASHER, LOCK: INSIDE DIAMETER: 32 MM; OUTSIDE DIAMETER: 35 MM; THICKNESS: 1.5 MM; NOMINAL SIZE: M20; MATERIAL: STAINLESS STEEL; TYPE: NRV; GRADE: 316; SPECIFICATION: ISO 9001; MODEL NO: RSK280/25; REFERENCE NO: 119-023-062-211; FOR USE ON NON-RETURN VALVE	
157	180229	WASHER, LOCK: INSIDE DIAMETER: 38 MM; OUTSIDE DIAMETER: 41 MM; THICKNESS: 1.5 MM; NOMINAL SIZE: M25; MATERIAL: STAINLESS STEEL; TYPE: NRV; GRADE: 316; SPECIFICATION: ISO 9001; MODEL NO: RSK380/25; REFERENCE NO: 3-119 600 089	
158	184362	SEAL, RING: TYPE: BONNET; INSIDE DIAMETER: 380 MM; OUTSIDE DIAMETER: 430 MM; THICKNESS: 40 MM; MATERIAL: GRAPHITE SS REINFORCED; PREPRESSED, STAINLESS STEEL CUPS, FINE FINIS	

159	229756	HOUSING: TYPE: EFP BOOSTER PUMP; DIMENSIONS: DIA 926 MM X HT 2.146 M; MATERIAL: BS 1501-151 GR 430; DRAWING NO: 0-104.600.666 AND 1-104.600.779 REV 1; SUCTION STRAINER, COMPLETE, AS PER SULZER DESIGN; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
160	229757	HOUSING: TYPE: EFP BOOSTER PUMP; DIMENSIONS: DIA 926 MM X HT 2.146 M; MATERIAL: BS 1501-151 GR 430; DRAWING NO: 0-104.600.666 AND 1-104.600.779 REV 1; SUCTION STRAINER, COMPLETE, AS PER SULZER DESIGN; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
161	239951	COUPLING, SHAFT FLEXIBLE: TYPE: TURBOFLEX 545; BORE DIAMETER: 85 MM; MATERIAL: STL; SUPPL P/N: HBS1000-8; LENGTH: 545MM; OUTSIDE DIAMETER: 246MM; INSULATED, USED BETWEEN 50 PCT BOOSTER PUMP HZB 253 640 AND MOTOR; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
162	240023	COUPLING, SHAFT FLEXIBLE: TYPE: TURBOFLEX 600; BORE DIAMETER: 90 MM; MATERIAL: STL; SUPPL P/N: HBS1000-8; 246 MM OUTSIDE DIAMETER, 600 MM LENGTH, FOR USE BETWEEN GN 25 MAAG GEARBOX AND 100PCT BOOSTER 302-580; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
163	254877	HOUSING: TYPE: SUCTION STRAINER; DIMENSIONS: DIA 1.39 M X HT 355 MM; MATERIAL: BS 1501-151 GR 430; DRAWING NO: 0-104.600.663 REV 1; FOR BFPT BOOSTER PUMP; LID, AS PER SULZER DESIGN; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
164	586846	BOLT: TYPE: COUPLING 1ST=32; DIAMETER: M12; LENGTH: 46 MM; HEAD: SEMI ROUND; GRADE: 12.9; MATERIAL: STL; THREAD: 1.75 MM; MANUF P/N: 706-5202-16; MODEL NO: ZES-4.5 / 6.5YK; EACH BOLT COMPLETE WITH WASHER AND NUT; FOR USE ON MAAG COUPLING	
165	624571	KIT: TYPE: SEALING; APPLICATION: SCOOP TUBE; COMPRISING: O-RINGS; SPECIFICATION: ISO 9001; MODEL NO: R110KGS; REFERENCE NO: TPP104-695-000-527; FOR USE ON VOITH GEARBOX; COMPRISING OF: 1 OFF 51,2 MM X 5,7MM NRB 70; 2 OFF 180 MM X 5MM NRB 70; 1 OFF 179,2 MM X 5,7MM NRB 70; 1 OFF 330 MM X 3MM NRB 70; 1 OFF 325 MM X 3MM NRB 70; 2 OFF 30 MM X 4MM NRB 70; IITEMS TO BEPACKED IN A BLACK SEALED POLYURETHANE BAG AS A SET. FOR SHELF LIFE CONROL,EACH BAG TO BE CLEARLY MARKED WITH CONTENTS, QUANTITY, BATCH NUMBER AND CURE DATE	

166	663311	COUPLER, HOSE: TYPE: MALE BALL QUICK; SIZE: 10 MM; CONNECTION: BSP 3/8 IN; MATERIAL: STEEL; MANUF P/N: 101.11232AC; REFERENCE NO: INTEVA 101; DESIGNED FOR HYDRAULIC OIL TO EAUROPEAN DIRECTIVE 97.23.EC; EPDM O-RING; 300 BAR; FOR SSC TAKE-UP	
167	685098	BOLT: TYPE: METRIC; DIAMETER: M30; LENGTH: 125 MM; HEAD: HEX; GRADE: B16; MATERIAL: BS4882; THREAD: 3.5 MM; THREAD LENGTH: 60 MM; SPECIFICATION: GRADE B16; FURNISHED ITEMS: NUT; BOLT ASSEMBLY; COMPLETE WITH NUT; FOR USE ON 100% FEED PUMP SUCTION STRAINER	
168	100463	SEAL: TYPE: BLADE; DIMENSIONS: WD 55 X LG 240 X THK 2 MM; MATERIAL: MS; APPLICATION: METROFLEX ISOLATOR; SUPPL P/N: 250/S; FT3/050/316/MS, 2MM THICK, 3 HOLE WITH 6MM X 30MM BOLT, LOCKNUT AND WASHER	
169	92855	PIN, SPRING: DIAMETER: 12 MM; LENGTH: 90 MM; MATERIAL: STL; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
170	136188	INSULATOR: TYPE: WIRE RAPPING; DIMENSIONS: LG 550 MM; MATERIAL: PORCELAIN; DRAWING NO: LURGI LSA12063/T REV 1; REFERENCE NO: EL017545; FOR USE WITH PRECIPITATOR	
171	194331	SOLVENT: TYPE: ELECTRICAL CLEANER; CONTAINER: 25 L; SUPPL P/N: FO655; MATERIAL SAFETY DATA SHEETS WITH ENVIRONMENTAL INFORMATION IN THE 16 POINT FORMAT TO BE PROVIDED WITH EVERY DELIVERY AS REQUIRED BY THE OCCUPATIONAL HEALTH AND SAFETY ACT; ENVIRO	
172	24420	FILTER, ELEMENT: DIMENSIONS: ID 22 X OD 47 X LG 84 MM; MATERIAL: GLASS FIBER; REFERENCE NO: 0060D010BNHC2; BETAMICRON	
173	34533	BEARING, SLEEVE: TYPE: BEARING NO 4, 6 PEDESTAL NO 4; INSIDE DIAMETER: 20.006 IN; OUTSIDE DIAMETER: 21-1/2 IN; LENGTH: 10 IN; MATERIAL: WHITE METAL LINED; OEM P/N: M210(A0)40306, OEM: GE STEAM POWER SERVICE; R210/1201/1-3, OEM: GE STEAM POWER SERVICE; DRAWING NO: R210(A0)1262/5 REV 0; R210(A0)1262/4 REV 0; 200(A0)40872/2127 REV 0; R210(A0)1202 REV 0; 200(A0)40872/2128 REV 0; CONSISTING OF TOP HALF R210(A0)1201/1 AND BOTTOM HALF R210(A0)1201/2; DISPATCHED SCHEDULE 7ACM 0151096 AND 7ACM 0151097, ISSUED TO DUVHA POWER STATION	
174	34534	BEARING, SLEEVE: TYPE: JOURNAL; INSIDE DIAMETER: 515 MM; OUTSIDE DIAMETER: 540 MM; LENGTH: 304 MM; MATERIAL: WHITE METAL BABBITTED; OEM P/N: M210A40066/2, OEM: GE STEAM POWER SERVICE; DRAWING NO: M210(A0)40308 REV 1; TUTUKA M210(A0)40310/6 REV 0; REFERENCE NO: R200A0-40872; SHELL NUMBERS 5;6;7 AND 8, TOP AND BOTTOM, FOR USE WITH PEDESTAL 3;4 AND 5	

175	133984	KIT, VALVE REPAIR: TYPE: IP CONTROL; APPLICATION: GOVERNOR; OEM P/N: R225(A0)814, OEM: GE STEAM POWER SERVICE; DRAWING NO: R225(A0)806 COMB 04 REV 0; R222(A0)973 REV 1; MODULE ASSY IP STOP COVER INTERMEDIATE PRESSURE CYLINDER, IN ACCORDANCE WITH GEC	
176	133985	KIT, VALVE REPAIR: TYPE: IP STOP COVER; APPLICATION: TURBINE; OEM P/N: R225(A0)814, OEM: GE STEAM POWER SERVICE; DRAWING NO: TUTUKA R225(A0)814 COMBO 01 REV 0; R253(A0)3624 REV 1; R255(A0)814 REV 1; R253(A0)3624 REV 1	
177	177182	PAD, BEARING: TYPE: FRONT; DIMENSIONS: THK 35 MM; MATERIAL: BRASS; OEM P/N: M215(A1)40025/1, OEM: GE STEAM POWER SERVICE; DRAWING NO: M200(A0)40872 REV 1; R215(A0)819; REFERENCE NO: 7ABR7355203; THRUST; RING SET; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
178	94307	O RING, CORD: MATERIAL: NEOPRENE; THICKNESS: 8 MM; SHORE HARDNESS: 75 DEG; SIZE: 10M LG, BLACK, SHELF LIFE, DATE OF MANUFACTURE AND METHOD OF STORAGE REQUIRED WITH DELIVERY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
179	100705	SHEET, GASKET: THICKNESS: 1.5 MM; LENGTH: 2 M; WIDTH: 1.5 M; MATERIAL: NON ASB FIBER COMPRESSED; SPECIFICATION: BS 2815-1973/1832 2815A; REFERENCE NO: 3XA; KLINGER GRADE TOP GRAPH 2000 BLACK, MAXIMUM TEMPERATURE 300 DEGREE CELCIUS, MAXIMUM PRESSURE 40 BAR, BOTH SIDES, NOT WIRE REINFORCED, PLAIN, ONE SHEET/7.7 KG	
180	100939	KIT: TYPE: MAJOR SERVICE; APPLICATION: OIL PURIFIER; SUPPL P/N: 63000; MOPX209; REFERENCE NO: 99-999204-06; 1 X BALL BEARING PART NO 8419, 1 X GASKET PART NO 65211, 5 X GASKET FITS AS 68592 PART NO 223318-05, FOR USE WITH MACHINE BOTTOM PART INCLUDING DRIVE PART NO 223412-21, 1 X SEAL RING PART NO 73547, 1 X BALL BEARING PART NO 68827, 1 X BALL BEARING PART NO 6525, 1 X GASKET PART NO 38164, 1 X BALL BEARING PART NO 7026, 1 X BALL BEARING PART NO 8726, 3 X FRICT PAD FIT AS 71627 PART NO 420843-81, 1 X O RING PART NO 65201, 1 X GASKET PART NO 65192, 1 X O RING PART NO 64104, 1 X BALL BEARING PART NO 60992, 1 X BALL BEARING PART NO 65186, 1 X BALL BEARING PART NO 65187, 1 X BALL BEARING PART	

181	100940	KIT: TYPE: INTERMEDIATE SERVICE; APPLICATION: OIL PURIFIER; SUPPL P/N: MOPX209; 547665-80; COMPRISING: 1 X GASKET PART NUMBER 67575, 1 X O RING PART NUMBER 42154, 1 X O RING PART NUMBER 223406-08, 1 X O RING PART NUMBER 67587, 1 X SEAL RING PART NUMBER 71440, 1 X O RING PART NUMBER 223401-77, 1 X GASKET PART NUMBER 517774-02, 1 X O RING PART NUMBER 223412-05, 3 X VALVE PLUG PART NUMBER 518549-01, 1 X NOZZLE PART NUMBER 71433, 1 X O RING PART NUMBER 223408-04, 1 X O RING FOR MOPX309/310 PART NUMBER 223412-34, 1 X SILICONE GREASE PART NUMBER 539474-03, FOR USE WITH SEPARATOR BOWL	
182	100941	KIT: TYPE: INTERMEDIATE SERVICE; APPLICATION: OIL PURIFIER; SUPPL P/N: 547666-80; MOP X209; COMPRISING: 1 X O RING PART NUMBER 67566; 2 X O RING PART NUMBER 223408-04; 1 X O RING PART NUMBER 67675; 1 X GASKET PART NUMBER 70923; 1 X O RING PART NUMBER 71866; 1 X O RING PART NUMBER 73212; 1 X GASKET PART NUMBER 71069; 2 X SEAL RING PART NUMBER 517672-02; 1 X GASKET PART NUMBER 190603; 2 X O RING 2 FOR MOPX310 PART NUMBER 223406-31; FOR USE WITH MACHINE TOP PART INCLUDING INLET/OUTLET DEVICE	
183	20377	BLADDER, ACCUMULATOR: RATED CAPACITY: 20 L; PRESSURE RATING: 20 MPA; MATERIAL: BUTYL; SPECIFICATION: 7/8" X UNF CS STEM/ 1/4" BSP; COMPLETE WITH SEAL KIT AND ANTI-EXTRUSION RING; ALL RUBBER PARTS MUST BE COMPATABLE TO CASTROL ANVOL PE46HR AND CASTROL ANVOL PE46M; A CERTIFICATE CONFIRMING THAT THEY COMPLY WITH ABOVE SPECIFICATION TO ACCOMPANIED EACH DELIVERY	
184	23767	FILTER, ELEMENT: TYPE: TURBINE; DIMENSIONS: ID 44 X OD 80 X LG 430 MM; MATERIAL: GLASS FIBER; FILTERING RETENTION: 10 UM; REFERENCE NO: HC9601FDP16Z	
185	23782	FILTER, ELEMENT: TYPE: TRAP; MATERIAL: PAPER; SUPPL P/N: 02P08/5P; DRAWING NO: GEC 200(A0)6420/171 REV 1; REFERENCE NO: 02P08SP; FILTRATION TYPE: P6018-1A2; MARK ONLY WITH BOWER MANUFACTURER'S SPECIFICATION; CERTIFICATE MUST BE SUBMITTED ON DELIVERY	
186	24757	FILTER: TYPE: FULLER EARTH; SUPPL P/N: HT718-00-CN; HILCO FULLERS EARTH ELEMENTS	
187	40016	FILTER, ELEMENT: TYPE: FRF FILTER; DIMENSIONS: ID 25 X OD 45 X LG 114 MM; MATERIAL: FIBER INORGANIC, EPOXY RESIN BONDED/IMPREGNATED, CAROLAN MEDIA ONLY; FILTERING RETENTION: 5 UM; SPECIFICATION: BETA 1000 ; ISO 16889 ; ISO 4406 12/09/07; MANUF P/N: HC9021FCP4Z; SUPPL P/N: HC9021FDP4Z; REFERENCE NO: G32B; PRESSURE RATIONG : 210 BAR :	
188	58743	COUPLING: SIZE: ID 30 X OD 45 X LG 50 MM; MATERIAL: PU; WITH RUBBER BUSH; FOR USE WITH FIRE RESISTANCE FLUID SYSTEM	
189	66215	PLUG, VALVE: MATERIAL: STAINLESS STEEL; REFERENCE NO: 27A9851X012	

190	78166	DIAPHRAGM, VALVE: DIMENSIONS: ID 13 X OD 33 X THK 1.5 MM; MATERIAL: PTFE; FOR FISHER VALVE AKZ NO:RF61S032; TYPE: 657 EWJ 8 IN X 6 IN; CONSISTING OF BONNET GASKET NO: 1U5081X0052; PISTON RING NO: 12A6120X012	
191	93458	PIN: TYPE: FISHER VALVE; DIAMETER: 3/16 IN; LENGTH: 1.06 IN; MATERIAL: SS GR 316; REFERENCE NO: 1V326035072; FOR 3/4 INCH STEM	
192	185270	SEAT, VALVE: VALVE STYLE: CONTROL; VALVE SIZE: 4 IN; MATERIAL: STAINLESS STEEL; SUPPL P/N: 2V561846172; FOR USE ON 657,SERIES EAS	
193	185273	CAGE, VALVE: VALVE STYLE: CONTROL; VALVE SIZE: 8 X 6 IN; MATERIAL: STAINLESS STEEL; SUPPL P/N: 23A7190X022; FOR USE ON VALVE TYPE 657,SERIES EWJ; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
194	63216	VALVE, GLOBE: VALVE SIZE: 50 MM; OPERATED: HANDWHEEL; CONNECTION: BW; BODY MATERIAL: 13CRMO44; TRIM: SEAT STELLITED; SOFTGOODS: COMPOSITE BRAIDED/GRAPHITE PREFORMED; STEM DESIGN: NON RISING SPINDLE; STYLE: INTEGRAL BONNET; DESIGN RATING: 250 BAR; TEMPERATURE RATING: 450 DEG C; REFERENCE NO: VKS11-250-50-10; HIGH PRESSURE STOP; SEMPELL; 24MM ID X 6MM OD; MATERIAL CERTIFICATES TO BE SUPPLIED WITH DELIVERY; NO CHANGES TO BE MADE TO DESCRIPTION UNLESS AUTHORISED BY WELDING ADMINSTRATOR; MATERIAL 10	
195	66222	VALVE, GLOBE: VALVE SIZE: 50 MM; OPERATED: HANDWHEEL; CONNECTION: BW; BODY MATERIAL: 10CRMO910; TRIM: SEAT STELLITED; SOFTGOODS: COMPOSITE BRAIDED/GRAPHITE PREFORMED; STEM DESIGN: NON RISING SPINDLE; STYLE: INTEGRAL BONNET; DESIGN RATING: 50 BAR; TEMPERATURE RATING: 540 DEG C; SUPPL P/N: VA500-13-50-50-G.S.; VA500 SEMPELL; HIGH PRESSURE STOP; 38MM ID X 47MM OD; MATERIAL CERTIFICATES TO BE SUPPLIED WITH DELIVERY; NO CHANGES TO BE MADE TO DESCRIPTION UNLESS AUTHORISED BY WELDING ADMINISTRATOR; MATERIAL 13	
196	66386	VALVE, GLOBE: VALVE SIZE: 50 MM; OPERATED: HANDWHEEL; CONNECTION: BW; BODY MATERIAL: 10CRMO910; TRIM: SEAT STELLITED; SOFTGOODS: COMPOSITE BRAIDED/GRAPHITE PREFORMED; STEM DESIGN: NON RISING SPINDLE; STYLE: INTEGRAL BONNET; DESIGN RATING: 50 BAR; TEMPERATURE RATING: 540 DEG C; SUPPL P/N: VA500-13-50-50-G.S.; VA500 SEMPELL; HIGH PRESSURE STOP; 38MM ID X 47MM OD; MATERIAL CERTIFICATES TO BE SUPPLIED WITH DELIVERY; NO CHANGES TO BE MADE TO DESCRIPTION UNLESS AUTHORISED BY WELDING ADMINISTRATOR; MATERIAL 13	
197	67688	NUT: TYPE: SPINDLE; DIAMETER: 75 MM; THREAD: TR32 X 8LH MM; MATERIAL: BRONZE ALLOY; SPECIFICATION: PED MODULE G; MATERIAL GRADE: PB1; APPLICATION: CONTROL VALVE; DRAWING NO: 0.46013E REV 0	

198	68772	VALVE, PLUG: VALVE SIZE: 70 MM; DESIGN RATING: 0.3-4.2 LB; BODY MATERIAL: STL ASTM A216; OPERATED: AIR ACTUATOR; SOFTGOODS: PACKING TFE; GRADE: WCC; SUPPL P/N: 657-EAS; REFERENCE NO: R13S007; TRIM 1 AR 3000 PLUG; BODY SIZE 4IN; RATING SCH 40BWE; TRAVEL 1-1/8IN	
199	70750	VALVE, GLOBE: VALVE SIZE: 25 MM; OPERATED: HANDWHEEL; CONNECTION: BW; BODY MATERIAL: 15MO3 (11); TRIM: SEAT STELLITED; SOFTGOODS: GRAPHITE COMPOSITE BRAIDED/PREFORMED; STYLE: INTEGRAL BONNET; DESIGN RATING: 320 BAR; TEMPERATURE RATING: 500 DEG C; REFERENCE NO: VA500-11-1500-1-GS; 21MM ID X 35MM OD; MATERIAL AND PRESSURE TEST CERTIFICATES TO BE SUPPLIED	
200	179573	GLAND, PACKING: DIMENSIONS: ID 20 X OD 26 X THK 40 MM; TYPE: LIVE LOADING CARTRIDGE; MATERIAL: GRAPHITE; SUPPL P/N: AES/20X26/CAR/DIE/PRE/C/355/360; TO BE BOXED, WRAPPED AND DUST SEALED TO PREVENT ANY DAMAGE	
201	179594	GLAND, PACKING: DIMENSIONS: ID 29.5 X OD 46.5 X THK 100 MM; TYPE: LIVE LOADING CARTRIDGE; MATERIAL: GRAPHITE; SUPPL P/N: AES/28X45/CAR/DIE/PRE/C/340/360; TO BE BOXED, WRAPPED AND DUST SEALED TO PREVENT ANY DAMAGE	
202	179603	GLAND, PACKING: DIMENSIONS: ID 45 X OD 55 X THK 55 MM; TYPE: LIVE LOADING CARTRIDGE; MATERIAL: GRAPHITE; SUPPL P/N: AES/45X52.8/CAR/DIE/PRE/C/355/360; TO BE BOXED, WRAPPED AND DUST SEALED TO PREVENT ANY DAMAGE	
203	179607	GLAND, PACKING: DIMENSIONS: ID 52 X OD 60 X THK 57 MM; TYPE: LIVE LOADING CARTRIDGE; MATERIAL: GRAPHITE; SUPPL P/N: AES/52X60/CAR/DIE/PRE/C/340/360; TO BE BOXED, WRAPPED AND DUST SEALED TO PREVENT ANY DAMAGE	
204	179633	SEAL: TYPE: BONNET; DIMENSIONS: ID 140 X OD 150 X THK 12 MM; MATERIAL: GRAPHITE; WITH 45 DEGREES TO INNER DIAMETER, TO BE WRAPPED TO PREVENT DAMAGE	
205	666321	SPINDLE: TYPE: REGULATING VALVE; DIAMETER: 32 MM; LENGTH: 760 MM; MATERIAL: X35CRMO17; SPECIFICATION: PED MODULE G; THREAD PITCH: LH 8 MM; FURNISHED ITEMS: SPINDLE NUT; FEATHER; DRAWING NO: 0.46012-E REV 0; REFERENCE NO: 26820; MATERIAL CERTIFICATE TO BE PROVIDED ON EVERY DELIVERY	
206	666322	SPINDLE: TYPE: REGULATING VALVE; DIAMETER: 20 MM; LENGTH: 570 MM; MATERIAL: X35CRMO17; SPECIFICATION: PED MODULE G; THREAD PITCH: LH 5 MM; FURNISHED ITEMS: SPINDLE NUT; FEATHER; DRAWING NO: 0.46014-E REV 0; REFERENCE NO: 27099; MATERIAL CERTIFICATE TO BE PROVIDED ON EVERY DELIVERY	
207	666323	STOP: TYPE: LIMIT STROKE; DIMENSIONS: DIA 20 X LG 80 MM; MATERIAL: STL; COLOR: SILVER; MATERIAL CERTIFICATE TO BE PROVIDED ON EVERY DELIVERY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	

208	666324	STOP: TYPE: LIMIT STROKE; DIMENSIONS: DIA 20 X LG 80 MM; MATERIAL: STEEL; COLOR: SILVER; DRAWING NO: 0.46014-E REV 0; MATERIAL CERTIFICATE TO BE PROVIDED ON EVERY DELIVERY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
209	666653	VALVE, GATE: VALVE SIZE: 168.3 X 10 MM; TYPE: DISC; DESIGN PRESSURE: 40 BAR; DESIGN TEMPERATURE: 447 DEG C; CONNECTION: BW; FACE TO FACE LENGTH: 350 MM; BODY MATERIAL: GS-17CRMO55; TRIM: STELLITE 6 SEAT; WEDGE 13CR; OPERATED: HANDWHEEL; APPLICATION: SOOTB	
210	666656	SPINDLE: TYPE: CONTROL VALVE; DIAMETER: 45 MM; LENGTH: 930 MM; MATERIAL: X35CRMO17; SPECIFICATION: NB13S0001/002; THREAD PITCH: 10 LEFT HAND MM; FURNISHED ITEMS: SPINDLE NUT AND FEATHER; DRAWING NO: 0.46009E REV 0; PED MODULE G; MATERIAL CERTIFICATE REQUIRED ON EVERY DELIVERY; A LETTER CONFIRMING THE ITEM	
211	670594	VALVE, GATE: VALVE SIZE: 168.3 X 10 MM; TYPE: DISC; DESIGN PRESSURE: 40 BAR; DESIGN TEMPERATURE: 447 DEG C; CONNECTION: BW; FACE TO FACE LENGTH: 350 MM; BODY MATERIAL: GS-17CRMO55; TRIM: STELLITE 6 SEAT; WEDGE 13CR; OPERATED: HANDWHEEL; APPLICATION: SOOTBLOWER REHEAT HAND ISOLATING VALVE; SPECIFICATION: DN150; GRADE: DIN 1.7357; DESIGN RATING: PN63; REFERENCE NO: GA100.10.063.150.S; NV01S101 AND NV01S001; MATERIAL CERTIFICATES AND SIGNED OEM LETTER	
212	45067	PUMP, ROTARY: TYPE: GEAR; PEERLESS TYPE 20SR04F, FOR USE WITH PRIMARY AIR; INDUCTION DRAUGHT; FORCED DRAUGHT FANS	
213	44589	PUMP, ROTARY: TYPE: JACKING OIL; PORT SIZE: 40 MM; SPEED: 940 RPM; RATING: 6000 PSI; DRIVER: MOTOR; REFERENCE NO: FV502141; FOR FD AND ID FANS	
214	51050	INJECTOR: TYPE: JACKING OIL; SIZE: OD 17 X LG 210 MM; MATERIAL: STEEL; APPLICATION: ID/FD FAN BEARINGS; DRAWING NO: C3.816.005081 REV 0; JACKING OIL INJECTOR, FOR USE ON AIRTEC HOWDEN FORCED DRAUGHT AND INDUCED DRAUGHT FAN BEARINGS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
215	54985	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 80 MM; MATERIAL: STL; LENGTH: 6 M; WALL THICKNESS: 4.8 MM; CONSTRUCTION: WELDED; END TYPE: SOCKET X THD; SPECIFICATION: BS 1387; SEAMLESS STEAM, TO THE LATEST EDITION OF SABS 62 AND BEARING THE MARK OF APPROVAL	
216	17177	CHANNEL, STRUCTURAL: WIDTH: 50 MM; LENGTH: 6 M; HEIGHT: 100 MM; MATERIAL: MS; PROCESS: HOT ROLLED; GRADE: EN43A; WEIGHT: 10.5 KG/M; SPECIFICATION: BS 4360	

217	217225	BEARING, FLANGE BLOCK: ROLLING ELEMENT: BALL; INSIDE DIAMETER: 45 MM; SHAPE: SQ; BLOCK SIZE: SQ 137 X THK 10 MM; BOLT MOUNTING: 4; BOLT DIAMETER: M14; HOUSING MATERIAL: CI; SUPPL P/N: UCF209; DUTY LIGHT	
218	34840	BEARING, FLANGE BLOCK: INSIDE DIAMETER: 75 MM; SHAPE: SQ; BLOCK SIZE: LG 200 X THK 80 MM; BOLT MOUNTING: 4; BOLT DIAMETER: M19; HOUSING MATERIAL: CI; SUPPL P/N: FY75; REFERENCE NO: UCF215; SPHERICAL	
219	N/A	UPS Spare description (CODE:6FSHT30K04): Fan - 119x119x38 220v, Part no:2526004	
220	N/A	UPS Spare description (CODE:6FSHT30K04): Display card HPS, Part no:6R_APTB0626C01A	
221	N/A	UPS Spare description (CODE:6FSHT30K04): RIC SY CONTR INV 30kVA 220Vd, Part no:6RICAERH008I03A	
222	N/A	UPS Spare description (CODE:6FSHT30K04): Power Supply Card - NF12177-SE12200, Part no:6RICSKRH007A	
223	N/A	UPS Spare description (CODE:6FSHT30K04):RIC HPS SISTEMA 30kVA 220VDC, Part no:6R_APTB2196A04A	
224	N/A	UPS Spare description (CODE:6FSHT30K04):3ph Interface Card - NF12243-SE12197, Part no:6RICSKRH011A	
225	N/A	UPS Spare description (CODE:6FSHT30K04):By Pass SCR 3ph Card - NF12345, Part no:6RICSKRH017B	
226	N/A	UPS Spare description (CODE:6FSHT30K04):RIC SK CONTR RADDR MAST 220Vdc, Part no:6R_AATB2742C03A	
227	N/A	UPS Spare description (CODE:6FSHT30K04):Slave Converter Control Card 12p, Part no:6R_AATB2742C02C	
228	N/A	UPS Spare description (CODE:6FSHT30K04):Fuse - 120A FF 660V 120FEE ceramic, Part no:2512910	
229	N/A	UPS Spare description (CODE:6FSHT30K04):FUSE 80A FF 240V LET CERAMIC, Part no:2512966	
230	N/A	UPS Spare description (CODE:6FSHT30K04):Fuse - 32A GG 400V 10x38 Ceram, Part no:2512952	
231	N/A	UPS Spare description (CODE:6FSHT30K04):Fuse - 160A GG 500V NHO, Part no:02512964A	
232	N/A	Charger Spares description: Power Supply Card (Siemens Charger - D220/200), COMPONENT MATERIAL SPECIFICATION: C53080-Y0100-L000-A1	
233	N/A	Charger Spares description: Thyristor Control Card ((Siemens Charger - D220/200)), COMPONENT MATERIAL SPECIFICATION:G53080-Y0101-L000-A1	
234	N/A	Charger Spares description: Alarm Card (Siemens Charger - D220/200), COMPONENT MATERIAL SPECIFICATION:G53080-Y0102-L000-B1	
235	N/A	Charger Spares description:Thyristor Control Card (Siemens Charger - D24/1600), COMPONENT MATERIAL SPECIFICATION:G53080-Y0101-M034-A1	
236	N/A	Charger Spares description:Alarm Card (Siemens Charger - D24/1600, COMPONENT MATERIAL SPECIFICATION:G53080-Y0102-L000-B1	
237	N/A	Charger Spares description:RECTIFIER BRIDGE 1200V, G10B, COMPONENT MATERIAL SPECIFICATION:SKB 25/12,	

238	N/A	Charger Spares description:FAST DIODE MODULES 800V; 105A , COMPONENT MATERIAL SPECIFICATION:SKMD 105F08,	
239	N/A	Charger Spares description: EACH WITH 2 DIODES WITH COMMON CATHODE, VERSION 8-PAIR, FOR EACH CIRCUIT, EMG 90-DIO 16E/LP, COMPONENT MATERIAL SPECIFICATION:2954808,	
240	N/A	Charger Spares description:EMG45-DIO 8E DIODEMODULE, WITH 8 DIODES INDIVIDUALLY WIRED, DIODE TYP 1N400, COMPONENT MATERIAL SPECIFICATION:2950103,	
241	N/A	Charger Spares description: SWITCH GEAR LIGHTING 15W 230VAC, COMPONENT MATERIAL SPECIFICATION:8MF4900	
242	N/A	Charger Spares description: ACCESSORIES KL 025 APERTURE 1, COMPONENT MATERIAL SPECIFICATION:8MF4908	
243	N/A	Charger Spares description:AUXILIARY SWITCH MOUNT. 2NC, F. LS-SWITCH T=70MM 1, COMPONENT MATERIAL SPECIFICATION:5ST3012	
244	N/A	Charger Spares description: HANDLE CONNECTOR FOR FI/LS-PROTECTORS D=70 MM F., MOUNTING ADDITIONAL COMPON. (1 SET = 5 PIECES IN POLY-BAG), COMPONENT MATERIAL SPECIFICATION:5ST3805-1	
245	N/A	Charger Spares description: FI/LS-PROTECTOR TYPE A (PSE/SSF),,D=70MM IFN 30MA,6KA, 1+N-POLEC, IN=10A, B, COMPONENT MATERIAL SPECIFICATION:5SU1356-6KK10	
246	N/A	Charger Spares description:LV HRC ISOLATING LINK,SIZE 1 INSULATED GRIPPING LUG 1, COMPONENT MATERIAL SPECIFICATION:3NG1202	
247	N/A	Charger Spares description:FUSE-SWITCH-DISCONNECTOR FOR SURFACE MOUNT. AND INST,SIZE1, 250 A, HANDLE UNIT GRAY, FLAT PAD CONNECTION M10, FUSE SIZE NH1, COMPONENT MATERIAL SPECIFICATION:3NP4270-0CA01,	
248	N/A	Charger Spares description:ACCESSORIES FOR FUSE SWITCH DISCONNECTORS 3NP35/3NP4.7 AND 3NP401, AUXILIARY SWITCH 1CO WITH SCREWS (INSTALLATION SET), COMPONENT MATERIAL SPECIFICATION:3NY3035,	
249	N/A	Charger Spares description:8A, CIRCUIT BREAKER CURR. SENS DC 440V AC 400V 10KA, 2-POLE, C, 8A, COMPONENT MATERIAL SPECIFICATION:5SY5208-7	
250	N/A	Charger Spares description:4A "B", CIRCUIT BREAKER 230/400V 6KA, 1-POLE, B, 4A, D=70MM 1, COMPONENT MATERIAL SPECIFICATION:5SY6104-6	
251	N/A	Charger Spares description:6A, AUXILIARY SWITCH MOUNT. 2S, F. LS-SWITCH T=70MM, COMPONENT MATERIAL SPECIFICATION:5ST3011	
252	N/A	Charger Spares description:6A, CIRCUIT BREAKER 230V 6KA,1+N-POLE B, 6A, D=70MM, COMPONENT MATERIAL SPECIFICATION:5SY6506-6	
253	N/A	Gen Protection IED, Make: Siemens, Type: Siprotec 5, Part no: 7UM6221-5EB92-3CB0-L0S	
254	N/A	Gen Trfr Protection IED, Make: Siemens, Type: Siprotec 5, Part no: 7UT6351-5EB92-2BA3-L0S	
255	N/A	Unit Trfr Protection IED, Make: Siemens, Type: Siprotec 5, Part no: 7UT6331-5EB92-2BC3-L0S	

256	N/A	Synchronising IED, Make: Siemens, Type: Siprotec 5, Part no: 7VE6320-5EB92-0CA0-L0S	
257	N/A	Bay Controller IED, Make: Siemens, Type: Siprotec 5, Part no: 6MD6641-5EB90-0AF0-L0S	
258	N/A	Voltage Regulation IED, Make: Aberle, Type: RegDA, Part no: REG-DA/B0/H0/F1/M1/S1/T0/K1/E00/D0/C00/XW96/G2/A2	
259	N/A	Voltage Regulation IED, Make: Aberle, Type: RegDA, Part no: REG-DA/B0/I0/H0/F1/M1/S1/T0/K1/E00/D0/C00/R1/XW96/L0/A2	
260	N/A	Gen Protection Relay: Ethernet Switch, Make: Ruggedcom, Part no: RSG2100NC-F-RM-HI-HI-TX01-TX01-FX01-FX01-FG02-1FG02-FX01-	
261	N/A	Gen Protection Bays: Simantic 19" Touch Screen PC, Make: Siemens, Part no: 6VA7875-0BE51-1AC0	
262	N/A	Gen Protection Relay: Simantic 19" Rack PC, Make: Siemens, Part no: 6ES7643-8KP44-2BX0	
263	N/A	Gen ProtectionRelay: Test Blocks, Make: Reyrolle, Type: 2RMLG 02, Part no: 7XG2220-2AA00-0AA0, 2RMLG 02; Article number 2993H10063	
264	N/A	20Hz Generator: Make: Siemens, Part no: 7XT3300-0CA00	
265	N/A	20Hz Band-pass Filter: Make: Siemens, Part no:7XT3400-0CA00	
266	N/A	Injection Unit for Rotor Ground Fault Protection: Make: Siemens, Part no: 7XT7100-0EA00/DD, 60V TO 250V 45Hz to 65Hz	
267	N/A	Rotor E/F Resistor Box: Make: Siemens, Part no: 7XR6004-0CA00/BB	
268	N/A	Annunciation Relays: Make: Siemens, Part no: 7TS1642-0AA0-1, 220V DC - With Scocket 7XP9010-2 (Flush mounting)	
269	N/A	Monostable Fast-Acting Relay: Make: Siemens, Part no: 7PA2642-1AA00-0, Fast Acting - 220V DC -8 Change Over Contacts - Without Scocket	
270	N/A	Monostable Fast-Acting Relay: Make: Siemens, Part no: 7PA2742-0AA00-0, Fast Acting - 220V DC -4 Change Over Contacts - Without Scocket	
271	N/A	Single Phase Trip Circuit Supervision: Make: Siemens, Part no: 7PA3042-1AA00-0, 220V DC - Without Socket	
272	N/A	Auxiliary : Make: Mors Smitt, Type: G08-D220, Part no: 321000011, 8 Pin - 220V Coil - 2 Change Over Contacts - (PPD)	
273	N/A	Auxiliary Relays: Make: Mors Smitt, Type: G08-D024, Part no: 321000002, 8 Pin - 24V Coil - 2 Change Over Contacts - (UCR Controls)	
274	N/A	Auxiliary Relays: Make: Mors Smitt, Type: G08-D048, Part no: 321000003, 8 Pin - 48V Coil - 2 Change Over Contacts - (EOD Controls)	

275	N/A	Auxiliary Relays: Make: Mors Smitt, Type: G11-D024, Part no: 321000102, 8 Pin - 24V Coil - 3 Change Over Contacts - (UCR Controls)	
276	N/A	Auxiliary Relays: Make: Mors Smitt, Type: G11-D048, Part no: 321000103, 8 Pin - 48V Coil - 3 Change Over Contacts - (EOD Controls)	
277	N/A	Auxiliary Relays: Make: Mors Smitt, Type: D-B, Part no: D-R4 220-230V 50Hz, D Series B 220V AC Coil (TCIP)	
278	N/A	Latching Relay: Make: Mors Smitt, Type: KDN, Part no: KDN 220 VDC, Latching - 220V DC Coil - 8 Change Over Contacts - (Brkr Flip Flop)	
279	N/A	Ring Current Transformer: Make: Current Electric, 2x (CTR:4000/1, Class 5P20; 10VA BIL 0.66kV, 50Hz - External Mounting)	
280	N/A	Ring Current Transformer: Make: Current Electric, 2x (CTR:2000/1, Class 5P20; 10VA BIL 0.66kV, 50Hz - External Mounting)	
281	N/A	Ring Current Transformer: Make: Current Electric, 2x (CTR:2400/1, Class 5P20; 10VA BIL 0.66kV, 50Hz - External Mounting)	
282	N/A	Bar CT: Make: Current Electric, 2x (CTR:200/1, Class PX; KPV 50; IM(A) 0.100; BIL 0.66kV, 50/60Hz - Internal Mounting)	
283	N/A	Aux CT: Make: Current Electric, CTR: 1/1; BIL 0.66kV, 50/60Hz - Internal Mounting)	
284	N/A	RECTIFIER BRIDGE 1200V, G10B, Make: SEMIKRON, Part No: SKB 25/12,	
285	N/A	FAST DIODE MODULES 800V; 105A 1, Make: SEMIKRON, Part No: SKMD 105F08,	
286	N/A	EACH WITH 2 DIODES WITH COMMON CATHODE, VERSION 8-PAIR, FOR EACH CIRCUIT, EMG 90-DIO 16E/LP, Make: PHOENIX CONTACT, Part No: 2954808,	
287	N/A	EMG45-DIO 8E DIODEMODULE, WITH 8 DIODES INDIVIDUALLY WIRED, DIODE TYP 1N4007, Make: PHOENIX CONTACT, Part No: 2950103,	
288	N/A	SWITCH GEAR LIGHTING 15W 230VAC , Make: SIEMENS AG, Part No: 8MF4900	
289	N/A	ACCESSORIES KL 025 APERTURE 1, Make: SIEMENS AG, Part No: 8MF4908	
290	N/A	AUXILIARY SWITCH MOUNT. 2NC, F. LS-SWITCH T=70MM 1, Make: SIEMENS AG, Part No: 5ST3012	
291	N/A	HANDLE CONNECTOR FOR FI/LS-PROTECTORS D=70 MM F., MOUNTING ADDITIONAL COMPON. (1 SET = 5 PIECES IN POLY-BAG), Make: SIEMENS AG, Part No: 5ST3805-1	
292	N/A	FI/LS-PROTECTOR TYPE A (PSE/SSF),,D=70MM IFN 30MA,6KA, 1+N-POLEC, IN=10A, B, Make: SIEMENS AG, Part No: 5SU1356-6KK10	

293	N/A	LV HRC ISOLATING LINK,SIZE 1 INSULATED GRIPPING LUG 1, Make: SIEMENS AG, Part No: 3NG1202	
294	N/A	FUSE-SWITCH-DISCONNECTOR FOR SURFACE MOUNT. AND INST,SIZE1, 250 A, HANDLE UNIT GRAY, FLAT PAD CONNECTION M10, FUSE SIZE NH1, Make: SIEMENS AG, Part No: 3NP4270-0CA01,	
295	N/A	ACCESSORIES FOR FUSE SWITCH DISCONNECTORS 3NP35/3NP4.7 AND 3NP401, AUXILIARY SWITCH 1CO WITH SCREWS (INSTALLATION SET), Make: SIEMENS AG, Part No: 3NY3035,	
296	N/A	8A, CIRCUIT BREAKER CURR. SENS DC 440V AC 400V 10KA, 2-POLE, C, 8A, Make: SIEMENS AG, Part No: 5SY5208-7	
297	N/A	4A "B", CIRCUIT BREAKER 230/400V 6KA, 1-POLE, B, 4A, D=70MM 1, Make: SIEMENS AG, Part No: 5SY6104-6	
298	N/A	6A, AUXILIARY SWITCH MOUNT. 2S, F. LS-SWITCH T=70MM, Make: SIEMENS AG, Part No: 5ST3011	
299	N/A	6A, CIRCUIT BREAKER 230V 6KA,1+N-POLE B, 6A, D=70MM, Make: SIEMENS AG, Part No: 5SY6506-6	
300	0140069	MOTOR ELEC:1.1 KW;1410 RPM;B5;4.85-2.8 A	
301	0140072	MOTOR ELEC:0.18 KW;1320 RPM;C63B;220/380	
302	0140073	MOTOR ELEC:0.25 KW;1345 RPM;1.35-0.78 A	
303	0140077	MOTOR ELEC:3 KW;1420 RPM;100L;6.4 A;400	
304	0140079	MOTOR ELEC:3 KW;2895 RPM;IMB5;6.4 A;380	
305	0140081	MOTOR ELEC:4 KW;1435-1440 RPM;DNV112MD;F	
306	0140103	MOTOR ELEC:2.2 KW;1415 RPM;9-5.2 A	
307	0140190	MOTOR ELEC:0.06 KW;1320 RPM;0.38-0.22 A	
308	0140452	MOTOR GEARD:0.55 KW;1.5 A;184 RPM;380;3	
309	0180752	MOTOR ELEC:0.37 KW;1375 RPM;71MD;1.94 A	
310	0180753	MOTOR BRK:0.12 KW;1325 RPM;IMB14;220-380	
311	0182390	MOTOR ELEC:0.25 KW;1335 RPM;0.83 A;415 V	
312	0214303	MOTOR ELEC:2.2 KW;1415 RPM;100L;4.8 A;4	
313	0222942	MOTOR ELEC:1.1 KW;1380 RPM;90-4;2.8 A;F	
314	0223631	MOTOR ELEC:5.5 KW;2860 RPM;DZ1325;11.6 A	
315	0239494	MOTOR ELEC:1.5 KW;2855 RPM;D90LD;4 A;380	
316	0244634	MOTOR ELEC:2.2 KW;920 RPM;DX112MD;5.5 A	
317	0244643	MOTOR ELEC:1.5 KW;1260 RPM;LQ3096;4.1 A	
318	0528256	MOTOR ELEC:4 KW;940 RPM;DX132MD;10.3 A;3	
319	0566240	MOTOR ELEC:0.37 KW;1370 RPM;1.05 A;380 V	
320	221473	MOTOR ELEC:7.5 KW;965 RPM;DX160DM;18.5 A	
321	222945	MOTOR ELEC:15 KW;2940 RPM;D160MBH;29 A;B5	
322	182394	MOTOR ELEC:18.5 KW;2900 RPM;DX160L;35.7	
323	222944	MOTOR ELEC:22 KW;2910 RPM;DX180M;42 A;2	

324	0017142	PLATE, METAL: DIMENSIONS: WD 1.2 M X LG 2.5 M X THK 8 MM; MATERIAL: MS BS 4360, SABS 1431; WEIGHT: 188.4 KG; PROCESS: HOT ROLLED; GRADE: 300WA EN43A	
325	0036222	DONE ACCORDING TO THE STANDARD FOR WELDING REQUIREMENTS ON ESKOM PLANT; 240-106628253 THE LENGTH OF THE CONVOLUTIONS; LINER MATERIAL; CARBON STEEL; SEE ATTACHED DRAWING NO FOR THE BELOW; ALL THE MANUFACTURING SHALL BE EXPANSION: 8MM; PIPE MATERIAL: ASTM A106 GR B ACCORDING TO EN 10204 3.1; 2 X INSTALLED LINERS 1.6MM THK AND 380MM LENGTH TO COVER SIZE: 400NB SCH:40; FACE TO FACE: 1040MM; DESIGN TEMPERATURE 210 DEG C; DESIGN PRESSURE 1.8 MPA; LATERAL EXPANSION: 25MM; AXIAL COMPENSATOR: TYPE: DOUBLE EXPANSION BELLOW; APPLICATION: BOILER BDV; SUPPL P/N: 0.61/96312; DRAWING NO: NO:0.61/96312 REV 0; PIPE	
326	0051088	BE STAMPED EVERY 500 MM AND VERIFIED BY THIRD PARTY STAMP, COLOUR CODED, END CAPS TO BE FITTED PREPARED, 5 MM WALL THICKNESS, CENTRE TO CENTRE SIZE 127 MM, LENGTH OF LEGS 200 MM; TEST CERTIFICATES TO BE SUPPLIED, ALL TUBING TO BEND, PIPE: MATERIAL: 15M03 HOT DRAWN; DEGREE: 180 DEG; GRADE: 3; SPECIFICATION: DIN 50049 TYPE 3.1A; 3.1C; TYPE ECONOMISER, TO BE	
327	0056215	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 51 MM; WALL THICKNESS: 3.6 MM; MATERIAL: STL ALLOY X20CRMV121; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN FLAT SQ CUT; TYPE: FLOW 129, 130; GRADE: 3; SPECIFICATION: DIN 50049; EN 10216-2; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO DIN 50049 TYPE 3.1.A OR 3.1.C, ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH OF THE TUBE END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EACH TUBE, COLOUR CODE BLUE, EN3.2 DOCUMENT CERTIFICATE ACCORDING TO EN10204	
328	0056215	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 51 MM; WALL THICKNESS: 3.6 MM; MATERIAL: STL ALLOY X20CRMV121; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN FLAT SQ CUT; TYPE: FLOW 129, 130; GRADE: 3; SPECIFICATION: DIN 50049; EN 10216-2; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO DIN 50049 TYPE 3.1.A OR 3.1.C, ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH OF THE TUBE END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EACH TUBE, COLOUR CODE BLUE, EN3.2 DOCUMENT CERTIFICATE ACCORDING TO EN10204	
329	0598318	AIA WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS SUPPLIER WILL COMPLY TO THE	

		FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD INDELIVER AS PER SPEC UNIQUE IDENTIFIER: 474-10206 REV 2; EN10204 3.2; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THETUBE, BOILER STRAIGHT: NOMINAL SIZE: 38 MM; WALL THICKNESS: 4 MM; MATERIAL: X20CRMV11-1; LENGTH: 6-11.8 M; STRUCTURE: SMLS;	
330	0644556	SHIELD, HEAT PROTECTIVE: TYPE: INSERT; DIMENSIONS: ID 51 MM X OD 57 MM X LG 3.6 M X THK 3 MM; MATERIAL: SS GR 310; MOUNT: BANGLESX6; APPLICATION: BOILER R/HTR 1; DRAWING NO: TUT-PP-GEN-001 REV 0; TUBE REPLACEMENT; TO BE MANUFACTURED ACCORDING TO THE DRAWING NOSUPPLIED; 6 BANGLES NEED TO BE SUPPLIED ON EVERY SHILED ON DELIVERY; MUST BE CERTIFIED ACCORDING TO EN3.1; DOCUMENTATION ANDCERTIFICATES OF EN10204 MUST BE SUPPLIED WITH DELIVERY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THECORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
331	0665724	REQUIRED ON EVERY DELIVERY325A; BASIC SHAPE STYLE: RECT; SPECIFICATION: EN1024; STRAND WIDTH: 6 MM; STRAND THICKNESS: 4.5 MM; MATERIAL CERTIFICATE 3.1METAL, EXPANDED: SIZE: WD 1.2 X LG 2.4 M; SHORTWAY: 27 MM; LONGWAY: 60 MM; MATERIAL: SS 304; FABRICATION METHOD: MENTEX 70/ VEM	
332	0665726	SHIELD, TUBE: DIMENSIONS: DIA 50.5MM X LG 2.45M; STYLE: BEND; MATERIAL: SS GR310; DRAWING NO: TUT-PP-GEN-122 REV 0; 0.61-02133 REV2 REV 0; PROTECTION LHS SHIELD: ID 44.5MM X WALL THICKNESS 3MM; VENDOR TO CONFIRM LATEST REVISION DRAWING BEFRE COMMENCING WITHMANUFACTURING; PROTECTING SHIELD TO COVER 180DEG AND THE BANGLE 180DEG RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE;BANGLES AND THE PROTECTION SHIELDS TO BE INCLUDED IN THE DELIVERY; AND BE CHARGED; BUT SUPPLIED AS SEPARATE ITEMS; QCP FOR PRESSINGTO BE APPROVED BY ESKOM BEFORE COMMENCING WITH ANY MANIPULATION; PROCURING OF HP PIPEWORK SHOULD BE IN LINE WITH ESKOM STANDARD:204-87733094; MATERIAL: SS 310; DIMENSIONS: OD 50.5 X WT 3MM; EACH BANGLE AND SHIELD SHOULD BE HARD STAMPED; HEAT NUMBER WITH LOWSTRESS STAMPS; MATERIAL CERTIFICATE 3.1 I.A.W REQUIRED ON EVERY DELIVERY; STANDARD EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURINGTHAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
333	0665727	PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).CERTIFICATE 3.1 I.A.W REQUIRED ON EVERY DELIVERY; STANDARD EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE310; DIMENSIONS: OD 44 X WT 3MM; EACH BANGLE AND SHIELD SHOULD BE HARD STAMPED; HEAT NUMBER WITH LOW STRESS STAMPS; MATERIALBEFORE COMMENCING WITH ANY MANIPULATION; PROCURING OF HP PIPEWORK SHOULD BE IN LINE WITH ESKOM STANDARD: 204-87733094; MATERIAL: SSSHIELD, TUBE: DIMENSIONS: DIA 45MM X LG 2.45M; STYLE: STRAIGHT; MATERIAL: SS GR310; DRAWING NO: 67.SH2.SD.08.11 REV 0; PROTECTIONSHIELD: ID 38MM X WALL THICKNESS 3MM; VENDOR TO CONFIRM LATEST REVISION DRAWING BEFRE COMMENCING WITH MANUFACTURING; PROTECTINGSHIELDS TO BE INCLUDED IN THE DELIVERY; AND BE CHARGED; BUT SUPPLIED AS SEPARATE ITEMS; QCP FOR PRESSING TO BE APPROVED BY ESKOMSHIELD TO COVER 180DEG AND THE BANGLE 180DEG RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE; BANGLES AND THE PROTECTION	

334	0665728	WT 3MM; EACH BANGLE AND SHIELD SHOULD BE HARD STAMPED; HEAT NUMBER WITH LOW STRESS STAMPS; MATERIAL CERTIFICATE 3.1 I.A.W REQUIREDMANIPULATION; PROCURING OF HP PIPEWORK SHOULD BE IN LINE WITH ESKOM STANDARD: 204-87733094; MATERIAL: SS 310; DIMENSIONS: OD 50.5 X ON EVERY DELIVERY; STANDARD EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWINGREVISION NUMBER (IF APPLICABLE).DELIVERY; AND BE CHARGED; BUT SUPPLIED AS SEPARATE ITEMS; QCP FOR PRESSING TO BE APPROVED BY ESKOM BEFORE COMMENCING WITH ANYBANGLE 180DEG RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE; BANGLES AND THE PROTECTION SHIELDS TO BE INCLUDED IN THEOFFSET; VENDOR TO CONFIRM LATEST REVISION DRAWING BEFORE COMMENCING WITH MANUFACTURING; PROTECTING SHIELD TO COVER 180DEG AND THE60.ST.SDBIF3PB.10.11 REV 0; TUT-PP-GEN-119 REV 0; 60.ST.SDBIF3PB.08.11 REV 0; PROTECTION SHIELD: ID 44.5MM X WALL THICKNESS 3MM; RHSHIELD, TUBE: DIMENSIONS: DIA 50.5MM X LG 2.45M; STYLE: BIFURCATION; MATERIAL: SS GR310; DRAWING NO: TUT-PP-GEN-118 REV 0;	
335	0665729	PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).MATERIAL CERTIFICATE 3.1 I.A.W REQUIRED ON EVERY DELIVERY; STANDARD EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY AREMATERIAL: SS 310; DIMENSIONS: OD 57 X WT 3MM; EACH BANGLE AND SHIELD SHOULD BE HARD STAMPED; HEAT NUMBER WITH LOW STRESS STAMPS;BY ESKOM BEFORE COMMENCING WITH ANY MANIPULATION; PROCURING OF HP PIPEWORK SHOULD BE IN LINE WITH ESKOM STANDARD: 204-87733094;PROTECTION SHIELDS TO BE INCLUDED IN THE DELIVERY; AND BE CHARGED; BUT SUPPLIED AS SEPARATE ITEMS; QCP FOR PRESSING TO BE APPROVEDPROTECTING SHIELD TO COVER 180DEG AND THE BANGLE 180DEG RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE; BANGLES AND THESHIELD: ID 51MM X WALL THICKNESS 3MM; RH OFFSET; VENDOR TO CONFIRM LATEST REVISION DRAWING BEFRE COMMENCING WITH MANUFACTURING;SHIELD, TUBE: DIMENSIONS: DIA 57MM X LG 2.45M; STYLE: STRAIGHT; MATERIAL: SS GR310; DRAWING NO: 67.RH2.SD.08.11 REV 0; PROTECTION	
336	0665730	SHIELD, TUBE: DIMENSIONS: DIA 54.3MM X LG 2.45M; STYLE: STRAIGHT; MATERIAL: SS GR310; DRAWING NO: 71.RH1.SD48.08.11 REV 0;PROTECTION SHIELD: ID 48.3MM X WALL THICKNESS 3MM; RH OFFSET; VENDOR TO CONFIRM LATEST REVISION DRAWING BEFRE COMMENCING WITHMANUFACTURING; PROTECTING SHIELD TO COVER 180DEG AND THE BANGLE 180DEG RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE;BANGLES AND THE PROTECTION SHIELDS TO BE INCLUDED IN THE DELIVERY; AND BE CHARGED; BUT SUPPLIED AS SEPARATE ITEMS; QCP FOR PRESSINGTO BE APPROVED BY ESKOM BEFORE COMMENCING WITH ANY MANIPULATION; PROCURING OF HP PIPEWORK SHOULD BE IN LINE WITH ESKOM STANDARD:204-87733094; MATERIAL: SS 310; DIMENSIONS: OD 52 X WT 3MM; EACH BANGLE AND SHIELD SHOULD BE HARD STAMPED; HEAT NUMBER WITH LOWSTRESS STAMPS; MATERIAL CERTIFICATE 3.1 I.A.W REQUIRED ON EVERY DELIVERY; STANDARD EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURINGTHAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	

337	0665731	APPLICABLE).EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IFSHOULD BE HARD STAMPED; HEAT NUMBER WITH LOW STRESS STAMPS; MATERIAL CERTIFICATE 3.1 I.A.W REQUIRED ON EVERY DELIVERY; STANDARDBE APPROVED BY ESKOM BEFORE COMMENCING WITH ANY MANIPULATION; MATERIAL: SS 310; DIMENSIONS: OD 44 X WT 3MM; EACH BANGLE AND SHIELDCOVER 180DEG AND THE BANGLE 180DEG + 10 DEG BOTH SIDES; RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE; QCP FOR PRESSING TOSHIELD, TUBE: DIMENSIONS: DIA 44MM X LG 2.45M; STYLE: BEND; MATERIAL: SS GR310; PROTECTION SHIELD BANGLE; PROTECTING SHIELD TO	
338	0665745	SPACER: TYPE: PLATTEN SLIP; DIMENSIONS: DIA 20 MM; MATERIAL: INCOLOY 800; APPLICATION: SUPERHEATER 1 PLATTEN ELEMENT SET;SPECIFICATION: EN10204; SPECIAL FEATURES: GUIDE BLOCK; SPACER AND STOPPER BLOCK; DRAWING NO: TUT-PP-SLP-001 REV 0; SUPPLY MATERIALAND MACHINE AS PER DRAWING; INSIDE MACHINING; NO SHARP CORNERS; RADIUS CUTTING REQUIRED; MATERIAL CERTIFICATE 3.1 (10) IS REQUIREDON EVERY DELIVERY; IF PWHT IS REQUIRED; PROCEDURE TO BE APPROVED BY ESKOM AND AIA BEFORE COMMENCING MANUFACTURING	
339	0665748	BRACKET: TYPE: ALIGNMENT; MATERIAL: INCOLOY 800; DIMENSIONS: DIA 20 X LG 940 MM; APPLICATION: SUPERHEATER 2 SUPPORT; RADIUS: 27.5;CONSIST OF ROD AND HOOK; MATERIAL CERTIFICATE 3.1 IS REQUIRED ON EVERY DELIVERY; STAMPED; ESKOM WELDING STANDARD REQUIRED240-106628253; WPS I.A.W EN ISO 15609-6 REQUIRED; QCP/ITP TO BE APPROVED BY ESKOM BEFORE WORK COMMENCE BENDING METHOD AND QCP TO BEAPPROVED	
340	0665749	APPROVED 240-106628253; WPS I.A.W EN ISO 15609-6 REQUIRED; QCP/ITP TO BE APPROVED BY ESKOM BEFORE WORK COMMENCE BENDING METHOD AND QCP TO BECONSIST OF ROD AND HOOK; MATERIAL CERTIFICATE 3.1 IS REQUIRED ON EVERY DELIVERY; STAMPED; ESKOM WELDING STANDARD REQUIREDDBRACKET: TYPE: ALIGNMENT; MATERIAL: INCOLOY 800; DIMENSIONS: DIA 20 X LG 70 MM; APPLICATION: REHEATER 2 SUPPORT; RADIUS: 22.5;	
341	0665750	BRACKET: TYPE: RETAINING; MATERIAL: INCOLOY 800; DIMENSIONS: WD 30 X LG 69 X THK 6 MM; SPECIFICATION: EN10216-2; APPLICATION:REHEATER LUG SUPPORT; MATERIAL CERTIFICATE 3.1A IS REQUIRED ON EVERY DELIVERY; I.A.W STANDARD EN1024 3.1; HARD STAMPED WITH LOWSTRESS STAMPS; HEAT NUMBERS	
342	0665753	LUG: TYPE: CASTLE; DIMENSIONS: WD 40 X HT 25 MM; MATERIAL: INCOLOY 800; RADIUS 24 MM; WALL THICKNESS: 12 MM; SMALL CASTLE LUG WITH40 MM BASE SUPERHEATER 3; MATERIAL CERITIFICATE EN10204 3.1 IS REQUIRED; STANDARD EN10216-2	
343	0053155	JOINT, EXPANSION: SIZE: 270 MM; LENGTH: 19.8 M; CONNECTION: CLAMP; MATERIAL: EPDM; DESIGN RATING: -30 TO 40 MBAR AT 200 DEG C;DRAWING NO: 25 REV 1; DOUBLE PLY 6MM THK; ECONOMISER GAS OUTLET TO PRECIP	
344	0089519	NUT, HEX: DIAMETER: M16; THREAD: 2 MM; NUT HEIGHT: 12.5 MM; MATERIAL: STAINLESS STEEL; GRADE: 316; SPECIFICATION: SABS 136; OEM P/N: 5160-250, OEM: GE STEAM POWER SERVICE	
345	0205418	PENETRANT: CONTAINER: CAN AEROSOL 650 ML; SUPPL P/N: 814; FLUID	

346	0210778	PACKING, BULK: WIDTH: 13 MM; THICKNESS: 13 MM; MATERIAL: GRAPHITE BRAIDED; SHAPE: SQ; SUPPL P/N: AES/S/P/350/13MM/2.5KG; TO BE BOXED, WRAPPED AND DUST SE ALED TO PREVENT ANY DAMAGE	
347	0217795	BEARING, FLANGE BLOCK: ROLLING ELEMENT: BALL; INSIDE DIAMETER: 25 MM; SHAPE: SQ; BLOCK SIZE: SQ 95 X THK 13 MM; BOLT MOUNTING: 4; BOLT DIAMETER: M12; HOUSING MATERIAL: CI; SUPPL P/N: F205; FOR USE ON DAMPERS, MUST HAVE GRUB SCREWS TO LOCK	
348	0184361	SEAL: TYPE: BONNET; DIMENSIONS: ID 307 X OD 359 X THK 40 MM; MATERIAL: GRAPHITE SS REINFORCED; FINE FINISH, STAINLESS STEEL CUPS SQUARE, FOR STEAM USAGE	
349	0054985	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 80 MM; MATERIAL: STL; LENGTH: 6 M; WALL THICKNESS: 4.8 MM; CONSTRUCTION: WELDED; ENDTYPE: SOCKET X THD; SPECIFICATION: BS 1387; SEAMLESS STEAM, TO THE LATEST EDITION OF SABS 62 AND BEARING THE MARK OF APPROVAL	
350	0217685	CHAIN, CONVEYOR: PITCH: 140 MM; MATERIAL: STL; LENGTH: 2.84 M; SUPPL P/N: AKWC-95188-850; POWER TRANSMISSION	
351	0124053	REVISION NUMBER (IF APPLICABLE).LOCATION, CONVEYORS AND ELEVATORS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWINGMOUNT: TYPE: END; DIMENSIONS: DIA 100 X LG 78 MM; MATERIAL: RUBBER; SUPPL P/N: UKXN-48109-150; BUFFER, BUHLER-MIAG FOR DRIVE UNITS	
352	0097560	SEAL, MECHANICAL: TYPE: LABYRINTH; SHAFT DIAMETER: 148 MM; BODY MATERIAL: SS GR 316; APPLICATION: PUMP; SUPPL P/N: AKNS-84038-810;VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
353	0039413	CHAIN, CONVEYOR: TYPE: PRECIPITATOR HOPPPER; PITCH: 145 MM; WIDTH: 15 IN; MATERIAL: STL; LENGTH: 39.5 M; SUPPL P/N: RAK83179-85;REFERENCE NO: 142V-BT-1-50/12; POWER TRANSMISSION; TYPE 15 IN	
354	0136189	BUSH, VALVE: TYPE: GUIDE; MATERIAL: STL; SUPPL P/N: EL016014; SIZE 26MM ID X 44MM OD X 48MM LG	
355	0038756	GUIDE: TYPE: SEGMENT; APPLICATION: BUCKET ELEVATOR HEAD/BOOT SECTION; MANUF P/N: AKCG83537-81; VENDORS ARE RESPONSIBLE FOR ENSURINGTHAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
356	0037326	SEGMENT: TYPE: FRICTION WHEEL; MANUF P/N: AKCG82590-01; ITEM 138 AND 146 BUCKET ELEVATOR HEAD AND BOOT SECTION; VENDORS ARERESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
357	0727955	GREASE: TYPE: HIGH TEMPERATURE; TEMPERATURE RATING: 0 UP TO ABOUT 350; CONTAINER: 7KG; TRADE NAME: MOLUB- ALLOY PASTE PL	

PART 3: SCOPE OF WORK

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C3.2	<i>Supplier's</i> Goods Information	

Total number of pages

C3.1: *PURCHASER'S* GOODS INFORMATION

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1 Overview and purpose of the *goods and services*

Supply and deliver of Various spares for Outage Department (Unit 1 Outage)

2 Specification and description of the *goods*

- As per full technical specification given on Goods Information / Price schedule Specifications (include Environmental specification) and drawing Numbers (where applicable). The *Supplier* implements a quality system and maintains the quality system until the delivery of all consumables. The system will be to the *Purchaser's* satisfaction and will be accepted prior to the signing of the *contract*. The *Supplier* will be subject to periodic audits by the *Purchaser* in order to ensure compliance with the system. Any deviations will be corrected to the *Purchaser's* satisfaction.

Technical Specifications

ITEM NUMBER	Material Number	Material Description
1	17150	PLATE, METAL: DIMENSIONS: WD 1.2 M X LG 2.5 M X THK 32 MM; MATERIAL: MS BS 4360, SABS 1431; WEIGHT: 753.6 KG; PROCESS: HOT ROLLED; GRADE: 300WA EN43A
2	83599	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M20; LENGTH: 50 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 33 MM; THREAD: 2.5 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135
3	84557	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M8; LENGTH: 75 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 25 MM; THREAD: 1.25 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135
4	162359	PLATE, METAL: DIMENSIONS: WD 1.2 M X LG 2.5 M X THK 10 MM; MATERIAL: MS; WEIGHT: 235.5 KG; PROCESS: HOT ROLLED; SPECIFICATION: BS 4360-1972 TABLE 6; GRADE: EN43
5	78517	SEAT, VALVE: DIMENSIONS: ID 159 X OD 285 X THK 100 MM; MATERIAL: STL; DRAWING NO: 699P10079/D REV 1; SCHEDULE NO 74411490226; FOR USE ON NO 4 PED
6	78518	NOZZLE, VALVE: MATERIAL: STL; DRAWING NO: 699P10079/D REV 1; REFERENCE NO: 74411490227; GEC SPINDLE, FOR USE WITH BOILER FEED PUMP TURBINE STEAM ADMISSION REGULATING; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
7	78519	STEM, VALVE: DIAMETER: 45 MM; LENGTH: 900 MM; MATERIAL: STL; DRAWING NO: 699P10079/D REV 1; NOZZLE, GEC SCHEDULE NO 74411490237 FOR USE ON NO 4 PED; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).

8	17145	SHEET, METAL: WIDTH: 1.225 M; LENGTH: 2.45 M; THICKNESS: 3 MM; MATERIAL: MS GR EN43A; FABRICATION METHOD: HOT ROLLED; SPECIFICATION: BS 4360; 1 EACH= 72.38 KG
9	17174	ANGLE, STRUCTURAL: LEG LENGTH: 40 MM; MATERIAL THICKNESS: 6 MM; LENGTH: 6 M; MATERIAL: MS; PROCESS: HOT ROLLED; WEIGHT: 3.52 KG/M; SPECIFICATION: BS 4360; GRADE: EN43A; 21.12 KG/LENGTH
10	17191	ANGLE, STRUCTURAL: LEG LENGTH: 25 MM; MATERIAL THICKNESS: 5 MM; LENGTH: 6 M; MATERIAL: MS; PROCESS: HOT ROLLED; WEIGHT: 1.77 KG/M; SPECIFICATION: SABS 1431; GRADE: 300WA 43A
11	50877	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 26.9 MM; WALL THICKNESS: 5 MM; MATERIAL: STL ALLOY 15MO3 HOT DRAWN; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN; FLOW 48; GRADE: 3; SPECIFICATION: DIN 50049; EN 10216-2; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO TYPE 3.01 A OR 3.1 C, ALL TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH, END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EACH, COLOUR CODE RED, EN3.2 DOCUMENT CERTIFICATE ACCORDING TO EN10204
12	50878	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 38 MM; WALL THICKNESS: 4 MM; MATERIAL: STL ALLOY 15MO3 HOT DRAWN; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN SQ CUT; TYPE: FLOW 80, 81; GRADE: 3; SPECIFICATION: DIN 50049; EN 10216-2; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO TYPE 3.1.A OR 3.1.C, ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH OF THE TUBE, END CAPS TO BE FITTED, COLOUR CODE RED, EN3.2 DOCUMENT CERTIFICATE ACCORDING TO EN10204
13	50879	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 38 MM; WALL THICKNESS: 4 MM; MATERIAL: STL ALLOY CR13MO44 HOT DRAWN; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN SQ CUT; TYPE: FLOW 82; GRADE: 3; SPECIFICATION: DIN 50049; EN 10216-2; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO TYPE 3.1.A OR 3.1.C, ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH, END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EACH TUBE, COLOUR CODE SILVER, EN3.2 DOCUMENT CERTIFICATE ACCORDING TO EN10204
14	50880	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 38 MM; WALL THICKNESS: 4.5 MM; MATERIAL: STL ALLOY CR10MO910 HOT DRAWN; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN SQ CUT; TYPE: FLOW 83, 84/91; GRADE: 3; SPECIFICATION: DIN 50049; EN 10216-2; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO TYPE 3.1.A OR 3.1.C, ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH, END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EACH TUBE, COLOUR CODE GREEN, EN3.2 DOCUMENT CERTIFICATE ACCORDING TO EN10204

15	50881	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 38 MM; WALL THICKNESS: 4.5 MM; MATERIAL: STL ALLOY CR13MO44 HOT DRAWN; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN; TYPE: FLOW 90; GRADE: 3; SPECIFICATION: DIN 50049; EN 10216-2; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO TYPE 3.1 A OR 3.1 C, ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH OF THE TUBE, END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EACH TUBE, COLOUR CODE SILVER, EN3.2 DOCUMENT CERTIFICATE ACCORDING TO EN10204
16	50887	TUBE, METALLIC: OUTSIDE DIMENSION: 44.5 MM; WALL THICKNESS: 5.6 MM; LENGTH: 6 M; MATERIAL: 15MO3 HOT DRAWN; STRUCTURE: SMLS; SPECIFICATION: DIN 50049; INSIDE DIAMETER: 38.9 MM; TYPE: FINNED; GRADE 3; EN 3.2 CERT; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO TYPE 3.1 A OR 3.1 C; ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH OF THE TUBE, END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EACH TUBE, COLOUR CODE RED
17	50888	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 48.3 MM; WALL THICKNESS: 3.6 MM; MATERIAL: STL ALLOY CR10MO910 HOT DRAWN; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN SQ CUT; TYPE: FLOW 115, 116; GRADE: 3; SPECIFICATION: DIN 50049; EN 10216-2; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO DIN 50049 TYPE 3.1.A OR 3.1.C, ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH OF THE TUBE, END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EACH TUBE, COLOUR CODE GREEN, EN 3.2 DOCUMENT CERTIFICATE ACCORDING TO EN10204
18	50892	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 51 MM; WALL THICKNESS: 3.6 MM; MATERIAL: STL ALLOY CR10MO910 HOT DRAWN; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN; TYPE: FLOW 111, 114; GRADE: 3; SPECIFICATION: DIN 50049; EN 10216-2; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO TYPE 3.1 A OR 3.1 C, ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH, END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EACH TUBE, COLOUR CODE GREEN, EN3.2 DOCUMENT CERTIFICATE ACCORDING TO EN10204
19	50893	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 51 MM; WALL THICKNESS: 5.6 MM; MATERIAL: 15MO3 HOT DRAWN; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN; TYPE: FLOW 10, 13; GRADE: 3; SPECIFICATION: DIN 50049; EN 10216-2; FINNED TUBES, TOTAL THICKNESS 65MM, TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO TYPE 3.1 A OR 3.1 C, ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH OF THE TUBE, END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EACH TUBE, COLOUR CODED RED, EN3.2 DOCUMENT CERTIFICATE ACCORDING TO EN10204

20	50977	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 44.5 MM; WALL THICKNESS: 5.6 MM; MATERIAL: STL ALLOY 15MO3 HOT DRAWN; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN; TYPE: FLOW 39; GRADE: 3; SPECIFICATION: DIN 50049; EN 10216-2; DRAWING NO: STEIN/M-KIE 26207C REV 1; SLING, WITH SQUIRE ENDS, TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO TYPE 3.1.A OR 3.1.C, ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH OF THE TUBE, END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EACH TUBE, COLOUR CODE RED, EN3.2 DOCUMENT CERTIFICATE ACCORDING TO EN10204
21	51080	WYE: TYPE: BIFURCATION; SIZE: OD 44.5 MM; MATERIAL: 13CRMO44; TO GO WITH BOILER TUBE; WALL THK 5.6 MM; TO BE DELIVERED WITH A DIN 50049-3.1 A / 3.1C OR EN10204 3.2; MATERIAL CERTIFICATES TO BE SUPPLIED WITH DELIVERY; PIECES TO BE STAMPED EVERY 500 MM/VERIFIED BY THIRD PARTY STAMP
22	52464	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 51 MM; WALL THICKNESS: MIN 5.6 MM; MATERIAL: 15M03; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN; TYPE: ECONOMIZER; SPECIFICATION: EN10216-2; FLOW SCHEME 13, WALL TUBING, MATERIAL CERTIFICATES TO BE SUPPLIED WITH ALL TUBES, ALL TUBES TO BE CAPPED, ALL TUBES TO BE COLOUR CODED, ALL TUBES TO BE HARD STAMPED WITH LOW STRESS STAMPS, MATERIAL AND TEST CERTIFICATES TO BE ACCORDING TO BS EN 10204:2004 TYPE 3.2; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION AIA

23	56210	<p>TUBE, BOILER STRAIGHT: NOMINAL SIZE: 38 MM; WALL THICKNESS: MIN 4 MM; MATERIAL: X20CRMOV12-1/X20CRMOV11-1; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN FLAT SQ CUT; TYPE: SUPERHEATER 3 AND 4; GRADE: 3; SPECIFICATION: EN10216-2; FLOW 100; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO BS EN 10204:2004 TYPE 3.2. COLOUR CODE BLUE; ALL TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP , AND COLOUR CODED ALONG THE WHOLE LENGTH OF THE END CAPS TO BE FITTED; HEAT NUMBERS MUST BE PRESENT ON EACH; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION AIA</p>
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24	56211	<p>TUBE, BOILER STRAIGHT: NOMINAL SIZE: 38 MM; WALL THICKNESS: MIN 5 MM; MATERIAL: X20CRMOV12-1/X20CRMOV11-1; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN FLAT SQ CUT; TYPE: FLOW 92, 102; GRADE: 3; SPECIFICATION: EN10216-2; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO BS EN 10204: 2004 TYPE 3.2; ALL TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH OF THE END CAPS TO BE FITTED; HEAT NUMBERS MUST BE PRESENT ON EACH; COLOUR CODE BLUE; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION AIA</p>
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25	56214	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 38 MM; WALL THICKNESS: MIN 6.3 MM; MATERIAL: X20CRM0V12-1/XCRM0V1-1; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN FLAT SQ CUT; TYPE: FLOW 104, 105; GRADE: 3; SPECIFICATION: EN10216-2; ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WOLE LENGTH OF THE TUBE END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EAC H TUBE, COLOUR CODE BLUE, TEST CERTIFICATE TO BE SUPPLIED ACCORDING TO BS EN 10204:2004 TYPE 3.2; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION AIA
26	86698	ROD, THREADED: DIAMETER: 16 MM; THREAD: 2 MM; LENGTH: 3 M; MATERIAL: STL; PROCESS: HOT ROLLED
27	87700	WASHER, FLAT: NOMINAL SIZE: M10; INSIDE DIAMETER: 12 MM; OUTER SIZE: 21 MM; THICKNESS: 2 MM; MATERIAL: STL; SPECIFICATION: SABS 4320-1968 TABLE 3 FORM E
28	89576	NUT, HEX: DIAMETER: M6; THREAD: 1 MM; MATERIAL: SS GR 316; ISO COARSE THREAD MEDIUM FIT; TO THE LATEST EDITION OF SABS136
29	89577	NUT, HEX: DIAMETER: M8; THREAD: 1.25 MM; NUT HEIGHT: 6 MM; MATERIAL: SS GR 316; SPECIFICATION: SABS 136
30	92129	PIN, COTTER SPLIT: DIAMETER: 4 MM; LENGTH: 50 MM; MATERIAL: STL; SABS796:1971:TABLE 4; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
31	162464	PLATE, METAL: DIMENSIONS: WD 2 M X LG 4 M X THK 6 MM; WIDTH: 2 M; LENGTH: 4 M; THICKNESS: 6 MM; MATERIAL: 15MO3; WEIGHT: 640 KG; PROCESS: HOT ROLLED; FLAT STEEL, MATERIAL TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO DIN 50049 TYPE 3.1.A OR 3.1.C, ALL PLATES TO BE HARD STAMPED WITH HEAT NUMBERS

32	162576	PLATE, METAL: DIMENSIONS: WD 1.25 M X LG 2.5 M X THK 10 MM; MATERIAL: 15MO3; WEIGHT: 360 KG; PROCESS: HOT ROLLED; FLAT STEEL, NOTE! MATERIAL CERTIFICATES TO BE SUPPLIED AND PLATES TO BE MARKED
33	225683	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 51 MM; WALL THICKNESS: 5.6 MM; MATERIAL: STL ALLOY 15MO3 HOT DRAWN; LENGTH: 8 M; STRUCTURE: SMLS; ENDS: CAPS PLASTIC ENDS; TYPE: TEST CATEGORY 2 (TC2); SPECIFICATION: EN10216-2; MATERIAL TO COMPLY WITH ESKOM STANDARD 240-240-87733094 REV 3; 15MO3; RESISTANCE WELDING TO TUBES AT 20MM CENTRES (DRAWING AVAILABLE); SEAMLESS ACCORDING TO EN 10216-2; RED OXIDE CORROSION PROTECTION LAYER ON TUBE AND FINNS. 3.2 CERTIFICATION IAW EN 10204:2004 ; MATERIAL SUPPLIED WITH H FIN SIZE 120MM X 3MMTHK; FIN GAP 20MM CENTRE TO CENTRE APART; ALL TUBING TO BE STENCILED AND VERIFIED BY THIRD PARTY DELIVERY; DELIVERY COST TO TUTUKA POWER STATION INCLUDE
34	598158	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 26.9 MM; WALL THICKNESS: 5 MM; MATERIAL: 16M03; LENGTH: 6-11.8 M; STRUCTURE: SMLS; TYPE: SIDEWALLS/SUPERHEATER 1; DELIVER AS PER SPEC UNIQUE IDENTIFIER: 474-10206 REV 2; EN 10204 3.2; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION AIA

35	598214	<p>TUBE, BOILER STRAIGHT: NOMINAL SIZE: 51 MM; WALL THICKNESS: 3.6 MM; MATERIAL: 10CRMO9-10; LENGTH: 6-11.8 M; STRUCTURE: SMLS; DELIVER AS PER SPEC UNIQUE IDENTIFIER: 474-10206 REV 2; EN10204 3.2; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION AIA</p>
36	598217	<p>TUBE, BOILER STRAIGHT: NOMINAL SIZE: 48.3 MM; WALL THICKNESS: 3.6 MM; MATERIAL: 10CRMO9-10; LENGTH: 6-11.8 M; STRUCTURE: SMLS; DELIVER AS PER SPEC UNIQUE IDENTIFIER: 474-10206 REV 2; EN10204 3.2; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION AIA</p>

37	598258	<p>TUBE, BOILER STRAIGHT: NOMINAL SIZE: 51 MM; WALL THICKNESS: 5.6 MM; MATERIAL: 16MO3; LENGTH: 6-11.8 M; STRUCTURE: SMLS; DELIVER AS PER SPEC UNIQUE IDENTIFIER: 474-10206 REV 2; AS PER EN10204 3.2; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION AIA</p>
38	598262	<p>TUBE, BOILER STRAIGHT: NOMINAL SIZE: 51 MM; WALL THICKNESS: 3.6 MM; MATERIAL: 16MO3; LENGTH: 6-11.8 M; STRUCTURE: SMLS; DELIVER AS PER SPEC UNIQUE IDENTIFIER: 474-10206 REV 2; EN10204 3.2; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION AIA</p>

39	598266	<p>TUBE, BOILER STRAIGHT: NOMINAL SIZE: 44.5 MM; WALL THICKNESS: 4.5 MM; MATERIAL: 16MO3; LENGTH: 6-11.8 M; STRUCTURE: SMLS; DELIVER AS PER SPEC UNIQUE IDENTIFIER: 474-10206 REV 2; EN10204 3.2; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION AIA</p>
40	598364	<p>TUBE, BOILER STRAIGHT: NOMINAL SIZE: 51 MM; WALL THICKNESS: 3.6 MM; MATERIAL: 13CRM04-5; LENGTH: 6-11.8 M; STRUCTURE: SMLS; DELIVER AS PER SPEC UNIQUE IDENTIFIER: 474-10206 REV 2; EN10204 3.2; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION AIA</p>

41	598524	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 38 MM; WALL THICKNESS: 5 MM; MATERIAL: 16M03; LENGTH: 6-11.8 M; STRUCTURE: SMLS; TYPE: VERTICAL DIVISION SIDEWALL PENETRATION; DELIVER AS PER SPEC UNIQUE IDENTIFIER: 474-10206 REV 2; AS PER EN10204 3.2; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIAL WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECT
42	661626	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 38 MM; WALL THICKNESS: MIN 4.5 MM; MATERIAL: 20CRM0V11-1; LENGTH: 7.2 M; STRUCTURE: SMLS; ENDS: PLAIN FLAT SQ CUT; TYPE: TEST CATEGORY 2 (TC2); SPECIFICATION: EN10216-2; TEST CERTIFICATE TO BE SUPPLIED ACCORDING TO BS EN 10204:2004 TYPES 3.2; ALL TUBING TO BE STENCILED AND VERIFIED BY THIRD PARTY; END CAPS TO BE FITTED. PURPLE STRIP ON TUBE FOR COLOUR CODING IDENTIFICATION. DELIVERY COST TO TUTUKA POWER STATION TO BE INCLUDED.
43		BY THIRD PARTY; END CAPS TO BE FITTED. PURPLE STRIP ON TUBE FOR COLOUR CODING IDENTIFICATION. DELIVERY COST TO
44		SHIELD, TUBE: DIMENSIONS: DIA 54.3 X LG 50 MM; STYLE: STRAIGHT; MATERIAL: SS GR310; PROTECTION SHIELD BANGLE; PROTECTING SHIELD TO COVER 180DEG AND THE BANGLE 180DEG + 10 DEG BOTH SIDES; RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE; QCP FOR PRESSING TO BE APPROVED BY ESKOM BEFORE COMMENCING WITH ANY MANIPULATION; MATERIAL: SS 310; DIMENSIONS: OD 54.5 X WT 3MM; EACH BANGLE AND SHIELD SHOULD BE HARD STAMPED; HEAT NUMBER WITH LOW STRESS STAMPS; MATERIAL CERTIFICATE 3.1 I.A.W REQUIRED ON EVERY DELIVERY; STANDARD EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).

45	665733	SHIELD, TUBE: DIMENSIONS: DIA 44.5 X LG 50 MM; STYLE: STRAIGHT; MATERIAL: SS GR310; DRAWING NO: TUT-PP-GEN-109 REV 0; 63.ST.SD.08.11 REV 0; PROTECTION SHIELD BANGLE; ID 44 X WALL THICKNESS 3MM; PROTECTING SHIELD TO COVER 180DEG AND THE BANGLE 180DEG + 10 DEG BOTH SIDES; RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE; QCP FOR PRESSING TO BE APPROVED BY ESKOM BEFORE COMMENCING WITH ANY MANIPULATION; MATERIAL: SS 310; DIMENSIONS: OD 44.5 X WT 3MM; EACH BANGLE AND SHIELD SHOULD BE HARD STAMPED; HEAT NUMBER WITH LOW STRESS STAMPS; MATERIAL CERTIFICATE 3.1 I.A.W REQUIRED ON EVERY DELIVERY; STANDARD EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
46	665734	SHIELD, TUBE: DIMENSIONS: DIA 56 X LG 50 MM; STYLE: STRAIGHT; MATERIAL: SS GR310; DRAWING NO: TUT-PP-GEN-111 REV 0; PROTECTION SLOTTED SHIELD BANGLE; ID 51 X WALL THICKNESS 3MM; PROTECTING SHIELD TO COVER 180DEG AND THE BANGLE 180DEG + 10 DEG BOTH SIDES; RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE; QCP FOR PRESSING TO BE APPROVED BY ESKOM BEFORE COMMENCING WITH ANY MANIPULATION; MATERIAL: SS 310; DIMENSIONS: OD 56 X WT 3MM; EACH BANGLE AND SHIELD SHOULD BE HARD STAMPED; HEAT NUMBER WITH LOW STRESS STAMPS; MATERIAL CERTIFICATE 3.1 I.A.W REQUIRED ON EVERY DELIVERY; STANDARD EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
47	665735	SHIELD, TUBE: DIMENSIONS: DIA 44 X LG 50 MM; STYLE: STRAIGHT; MATERIAL: SS GR310; PROTECTION SLOTTED SHIELD BANGLE; ID 38 X WALL THICKNESS 3MM; PROTECTING SHIELD TO COVER 180DEG AND THE BANGLE 180DEG + 10 DEG BOTH SIDES; RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE; QCP FOR PRESSING TO BE APPROVED BY ESKOM BEFORE COMMENCING WITH ANY MANIPULATION; MATERIAL: SS 310; DIMENSIONS: OD 44 X WT 3MM; EACH BANGLE AND SHIELD SHOULD BE HARD STAMPED; HEAT NUMBER WITH LOW STRESS STAMPS; MATERIAL CERTIFICATE 3.1 I.A.W REQUIRED ON EVERY DELIVERY; STANDARD EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).

48	665736	SHIELD, TUBE: DIMENSIONS: DIA 57 X LG 50 MM; STYLE: STRAIGHT; MATERIAL: SS GR310; PROTECTION SHIELD BANGLE; ID 51 X WALL THICKNESS 3MM; PROTECTING SHIELD TO COVER 180DEG AND THE BANGLE 180DEG + 10 DEG BOTH SIDES; RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE; QCP FOR PRESSING TO BE APPROVED BY ESKOM BEFORE COMMENCING WITH ANY MANIPULATION; MATERIAL: SS 310; DIMENSIONS: OD 57 X WT 3MM; EACH BANGLE AND SHIELD SHOULD BE HARD STAMPED; HEAT NUMBER WITH LOW STRESS STAMPS; MATERIAL CERTIFICATE 3.1 I.A.W REQUIRED ON EVERY DELIVERY; STANDARD EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE) .
49	665739	SHIELD, TUBE: DIMENSIONS: DIA 50.5 X LG 50 MM; STYLE: STRAIGHT; MATERIAL: SS GR310; PROTECTION SLOTTED SHIELD BANGLE; ID 44.5 X WALL THICKNESS 3MM; PROTECTING SHIELD TO COVER 180DEG AND THE BANGLE 180DEG + 10 DEG BOTH SIDES; RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE; QCP FOR PRESSING TO BE APPROVED BY ESKOM BEFORE COMMENCING WITH ANY MANIPULATION; MATERIAL: SS 310; DIMENSIONS: OD 50.5 X WD 3MM; EACH BANGLE AND SHIELD SHOULD BE HARD STAMPED; HEAT NUMBER WITH LOW STRESS STAMPS; MATERIAL CERTIFICATE 3.1 I.A.W REQUIRED ON EVERY DELIVERY; STANDARD EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE) .
50	665740	BRACKET: TYPE: U-BEND; MATERIAL: INCOLOY 800; DIMENSIONS: WD 60 X LG 200 X THK 4 MM; SPECIFICATION: EN10216-2; APPLICATION: SUPERHEATER SUPPORT; 180DEG BEND AT 100MM (CENTRE); MATERIAL CERTIFICATE EN10204 3.1 REQUIRED ON EVERY DELIVERY; MATERIAL TO BE HARD STAMPED 'O' WITH LOW STRESS STAMPS
51	665751	BRACKET: TYPE: RETAINING; MATERIAL: INCOLOY 800; DIMENSIONS: WD 45 X LG 82 X THK 6 MM; SPECIFICATION: EN10216-2; APPLICATION: REHEATER LUG SUPPORT; MATERIAL CERTIFICATE 3.1A IS REQUIRED ON EVERY DELIVERY; I.A.W STANDARD EN1024 3.1; HARD STAMPED WITH LOW STRESS STAMPS; HEAT NUMBERS
52	665752	LUG: TYPE: CASTLE; DIMENSIONS: WD 35 X HT 25 MM; MATERIAL: INCOLOY 800; RADIUS 24 MM; WALL THICKNESS: 12 MM; SMALL CASTLE LUG WITH 40 MM BASE SUPERHEATER 4; MATERIAL CERTIFICATE EN10204 3.1 IS REQUIRED; STANDARD EN10216-2
53	26565	JOINT, UNIVERSAL: TYPE: PUMP; SIZE: ID (32 X 38) X OD 45 X LG 126 MM; MATERIAL: STL ALLOY; ME45/5109A; WITH 8MM DOWL HOLE; TYPE CD 9; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE) .

54	53889	STABILIZER: TYPE: OIL BURNER SWIRLER; SIZE: ID 365 X OD 375 X WD 205 MM; MATERIAL: STAINLESS STEEL; DRAWING NO: LA2243D REV 1; REFERENCE NO: LD380500; ITEM 4C, FOR USE WITH PEABODY FIREFLY BURNER
55	84600	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M20; LENGTH: 75 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 48 MM; THREAD: 2.5 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135
56	97825	TAPE: TYPE: WEBBING; DIMENSIONS: WD 40 MM X LG 30 M X THK 3 MM; MATERIAL: COTTON; COLOR: WHITE; SUPPL P/N: 105
57	29153	BRACKET: TYPE: CHAIN ELEVATOR; MATERIAL: STL; DIMENSIONS: LG 2.33 M; SUPPL P/N: RHK-30013-030; BUCKETS ATTACHEMENT, ITEM 160
58	31242	BEARING: TYPE: ROLLER, TAPER; INSIDE DIAMETER: 150 MM; OUTSIDE DIAMETER: 270 MM; WIDTH: 154 MM; STYLE: OPEN; MATERIAL: STL; SUPPL P/N: 02BX130GR; SET, DYNAMIC 1250000N AND STATIC 2280000N
59	31721	BODY: TYPE: SLIDE BEARING; DIMENSIONS: WD 200 X THK 100 MM; MATERIAL: STL; SUPPL P/N: RHK-40003-010; FOR USE WITH DUST HANDLING PLANT BOOT STATION; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
60	34714	BEARING, PILLOW BLOCK: INSIDE DIAMETER: 130 MM; BOLT MOUNTING: 4; BOLT DIAMETER: 28 MM; BLOCK SIZE: WD 180 X LG 560 X HT 420 MM; SHAFT HEIGHT: 190 MM; ROLLING ELEMENT: ROLLER CYLINDRICAL; HOUSING MATERIAL: CI; SUPPL P/N: 02-BCP-130-GR; COOPER SPLIT PEDESTAL, COMPLETE WITH CARTRIDGE; DUTY: HEAVY
61	37497	RAIL: TYPE: WEAR; DIMENSIONS: WD 60 X LG 217 X THK 20 MM; MATERIAL: STL MANGANESE; SUPPL P/N: AKNS-83071-020; DRAWING NO: RNS83071-02 REV 1; FOR USE WITH PRECIPITATOR TRANSVERSE CONVEYOR DRIVE STATION AND CONNECTION TROUGH OUTLET FRAME; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
62	37736	SPINDLE: TYPE: END STATION; DIAMETER: 22 MM; LENGTH: 360 MM; MATERIAL: STL; SUPPL P/N: BKT390/29014ZV; RNS-82001-810; DRAWING NO: UKZ10030 SHEET 32 REV 1; RIDGID END, L700 ML.06-1/2, INCLUDING THE SHAFT, IDLER, BEARINGS AND SHAFT SEALS, WITH TENSION ADJUSTER SYSTEM
63	38397	PLATE: TYPE: LINER; DIMENSIONS: WD 40 X LG 1.296 M X THK 10 MM; MATERIAL: SS BENNOX 10/200; SPECIFICATION: ISO 9001; APPLICATION: CHAIN LINK; SUPPL P/N: AKNS-30006-040; RETURN, ITEM NUMBER: 118, FOR USE ON DUST HANDLING PLANT

64	38402	BAR: TYPE: WEAR; DIMENSIONS: WD 60 X LG 628 X THK 20 MM; MATERIAL: STL MANGANESE; SUPPL P/N: RNS-85000-810; DRAWING NO: UKZ-10030 SHEET 22 REV 1; UKZ-10030 SHEET 22 ITEM 5 REV 1; INCLINE WEAR FOR CONNECTION TROUGH AT DRIVE STATION FOR HOPPER CONVEYOR, WITH WELDED STUDS ON
65	38406	RAIL: TYPE: WEAR; DIMENSIONS: WD 60 X LG 881 X THK 20 MM; MATERIAL: STL MANGANESE; SUPPL P/N: RNS84028-81; DRAWING NO: UKZ-10045/05-B REV 1; USE WITH PRECIPITATOR TRANSVERE CONVEYOR DRIVE STATION AND CONNECTION TROUGH OUTLET FRAME, 1ST COLLECTOR CONVEYOR; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
66	38482	RAIL: TYPE: WEAR; DIMENSIONS: WD 60 X LG 125 X THK 20 MM; MATERIAL: STL MANGANESE; SUPPL P/N: AKNS-83012-060; DRAWING NO: UKZ-10030 SHEET 30 ITEM 7 REV 1; UKZ-10030 SHEET 30 REV 1; HOPPER CONVEYOR, TOP, WITH WELDED STUDS ON; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
67	38499	SHAFT: SUPPL P/N: RNS-30000-020; FOR USE ON DRIVE STATION AT DUST HANDLING PLANT; ITEM 77
68	38502	RAIL, RAILROAD: LENGTH: 1.39 M; MATERIAL: STL MANGANESE; SUPPL P/N: AKNS-84014-810; BOTTOM AND RETURN WEAR, ITEM NUMBER: 101, FOR USE ON DUST HANDLING PLANT TROUGH SECTIONS
69	38503	RAIL, RAILROAD: LENGTH: 1.29 M; MATERIAL: STL MANGANESE; SUPPL P/N: AKNS-84014-810; BOTTOM AND RETURN, ITEM NUMBER: 102, FOR USE ON TROUGH SECTIONS
70	68781	SHIM, STOCK: THICKNESS: 2 MM; DIMENSIONS: WD 35 X LG 232 MM; MATERIAL: MS; SUPPL P/N: UNN-56039-138; TOLERANCE RING STAR, FOR USE ON BOOT STATION DUST HANDLING PLANT, ITEM 151; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
71	68782	SHIM, STOCK: THICKNESS: 2 MM; DIMENSIONS: WD 27 X LG 188 MM; MATERIAL: MS; SUPPL P/N: UNN-56039-144; TOLERANCE RING STAR, DUST HANDLING PLANT, PART FOR BOOT STATION, BUHLER-MIAG ITEM 152; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
72	89637	WASHER, FLAT: NOMINAL SIZE: M16; INSIDE DIAMETER: 17 MM; OUTER SIZE: 30 MM; THICKNESS: 3.3 MM; MATERIAL: STAINLESS STEEL; GRADE: 316; BOLT; ROUND SHAPE
73	92625	PIN: DIAMETER: 25 MM; LENGTH: 92 MM; MATERIAL: STL; SUPPL P/N: AKCG-50316-010; 142V, BUHLER-MIAG, ONE RING MOUNTED, FOR USE WITH DUST HANDLING CONVEYOR CHAIN
74	92861	PIN: TYPE: ELASTIC; DIAMETER: 6 MM; LENGTH: 35 MM; MATERIAL: STAINLESS STEEL; SUPPL P/N: UNN-18012-097; BUHLER-MIAG, FOR USE WITH CONVEYOR CHAIN DUST HANDLING PLANT

75	112691	DISC: TYPE: STOP; DIMENSIONS: DIA 98 X THK 15 MM; MATERIAL: STL; SUPPL P/N: RHK-30100-020; FOR USE ON BUCKET ELEVATOR IDLER
76	112692	RING: TYPE: DISTANCE; INSIDE DIAMETER: 74 MM; OUTSIDE DIAMETER: 88 MM; WIDTH: 35 MM; MATERIAL: STL; SUPPL P/N: RHK-30100-040; BUHLER-MIAG; FOR USE ON BOOT STATION DUST PLANT
77	177203	CHUTE: TYPE: COAL; DIMENSIONS: DIA 610 X LG 781 MM; MATERIAL: STL; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
78	223513	MOTOR, ELECTRIC: POWER: 3 KW; SPEED: 1420/2.7 RPM; CURRENT: 7.4 A; POTENTIAL: 380 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP65; INSULATION CLASS: F; SERVICE FACTOR: S1; SUPPL P/N: D2A46HZCFG17-117/309K-ZWD; EBERHARD BAUER, TWO SPEED, 50HZ, POWER FACTOR COS 0.85, CONNECTION DELTA, SHAFT GEARED, H5-11B
79	501129	MOTOR, GEARED: POWER: 16/32 KW; CURRENT: 34.3/58.5 A; OUTPUT SPEED: 16.254/32.96 RPM; RATIO: 90:1; POTENTIAL: 380 V; MOTOR SPEED: 720/1460 RPM; MOUNTING: FLANGE B5; PHASE: 3; ACCESSORIES: TORQUE ARM; CONNECTION LOCATION: TOP; DIRECTION: BI-DIRECTIONAL; INSULATION CLASS: F; SHAFT: DIA 125 X LG 458 MM; MOTOR TYPE: TEFC SQUIRREL CAGE; POLES: 8/4; SERVICE FACTOR: 2.93/2.89; TEMPERATURE CLASS: B; MANUF P/N: IGUB3DH08; REFERENCE NO: B3DH08; 1LG4223-4/8AA91-Z
80	570519	SEAL: TYPE: DUST; DIMENSIONS: ID 110 X OD 135.4 X THK 9.5 MM; MATERIAL: RUBBER; APPLICATION: HOPPER CONVEYORS; REFERENCE NO: UVV-00120-799; GACO SPLIT; WITH COTTON REINFORCED NBR; SPRING AISI 302; OPERATING TEMP: -30 TO 120DEG C
81	17087	BAR, FLAT: WIDTH: 65 MM; LENGTH: 6 M; THICKNESS: 10 MM; MATERIAL: MS BS 4360; PROCESS: HOT ROLLED; GRADE: EN43A; WEIGHT: 5.1 KG/M; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
82	161960	BAR, ROUND: NOMINAL DIAMETER: 76 MM; LENGTH: 3 M; MATERIAL: STL 070M20 BS970 PART 1; PROCESS: HOT ROLLED; GRADE: EN3B; WEIGHT: 37 KG/M
83	17000	BOOTS, SAFETY: SIZE: 5; 240; TOE CONSTRUCTION TYPE: STL; COLOR: BROWN; MATERIAL: LEATHER; STYLE: 8031-03; TREAD SURFACE TYPE: PU DUAL DENSITY LIGHTWEIGHT, SOLVENT RESISTANT; SABS 1114; HEIGHT: ANKLE
84	23459	VALVE: TYPE: STOP; BODY MATERIAL: STL; DRAWING NO: GEC R20226S2091/501 REV 1; SCHEDULE NUMBER 669P10079D
85	23460	RING, PISTON: TYPE: COMPRESSOR; INSIDE DIAMETER: 160 MM; OUTSIDE DIAMETER: 172 MM; THICKNESS: 3 MM; MATERIAL: STL; DRAWING NO: GEC 699P10079/D REV 1; 699P10079/D REV 1; REFERENCE NO: 744I1490088; DESPATCHED SCHEDULE, FOR USE WITH BOILER FEED PUMP TURBINE NOZZLE VALVE ACTUATOR

86	23461	WASHER, LOCK: INSIDE DIAMETER: 60 MM; MATERIAL: STL; DRAWING NO: 699P10079D REV 1; GEC 699P10079D REV 1; DS ITEM NUMBER: 744I149-0094; FOR USE ON BFPT OVERSPEED TRIP AND NV ACTUATOR; SIZE 95MM LG
87	23462	PISTON: DIMENSIONS: DIA 165 X LG 450 MM; MATERIAL: STL; APPLICATION: BOILER FEED PUMP TURBINE; DRAWING NO: 699P10079D REV 1; GEC 699P10079D REV 1; REFERENCE NO: 744I1490095; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
88	23463	WASHER, THRUST: INSIDE DIAMETER: 103 MM; OUTSIDE DIAMETER: 155 MM; THICKNESS: 2.5 MM; MATERIAL: STL; DRAWING NO: GEC 626D10082 REV 1; SPECIAL DU; ORDER NUMBER TG8/SA/779037 ED 38760; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
89	23473	PAD, BEARING: TYPE: THRUST BEARING; DIMENSIONS: THK 12 MM; MATERIAL: STL; SUPPL P/N: 269/136LM; 296/136RM; DRAWING NO: 699P10079/D REV 1; REFERENCE NO: 296/136RM; SLIDING; TRUST; SCHEDULE NUMBER: 744I1490278; FOR USE ON BFPT THRUST BEARING; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
90	23475	PLATE: TYPE: RETAINING; DIMENSIONS: DIA 28 X THK 6 MM; MATERIAL: STL; APPLICATION: BFPT; OEM P/N: R20200F075/1, OEM: GE STEAM POWER SERVICE; DRAWING NO: DUVHA/TUTUKA 610A10288/15 REV 0; 699P10079/D REV 1; GEC SCHEDULE NUMBER 744I1490292
91	23479	DISC, RUPTURE: DIAMETER: 600 MM; MATERIAL: STAINLESS STEEL; BURST PRESSURE: 46 KPA AT 20 DEG C; TYPE: SEALING RING; 690 MM OUTSIDE DIAMETER, 600 MM BURSTING AREA, 0.34 BAR AT PLUS MINUS 150 DEGREES CENTIGRADE, TEST CERTIFICATES TO BE SUPPLIED WITH DELIVERY
92	23487	ORIFICE, PLATE: TYPE: UNIVERSAL; ORIFICE SIZE: 10 MM; DIMENSIONS: OD 137 X THK 3 MM; MATERIAL: STL; DRAWING NO: 642D10266/1/398 REV 1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
93	23488	ORIFICE, PLATE: TYPE: UNIVERSAL; ORIFICE SIZE: 8 MM; DIMENSIONS: SQ 65 X THK 4 MM; MATERIAL: STL; REFERENCE NO: NR20226F2225/1; ITEM NUMBER: 399; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
94	25085	FILTER, ELEMENT: TYPE: CARTRIDGE OIL DISPOSABLE; DIMENSIONS: ID 75 X OD 170 X LG 430 MM; MATERIAL: FELT; SUPPL P/N: C6360229; REFERENCE NO: 6360229; FOR USE ON LUB SYSTEM
95	25086	FILTER, ELEMENT: TYPE: OIL; DIMENSIONS: ID 75 X OD 170 X LG 430 MM; MATERIAL: FELT; SUPPL P/N: C6370812; VOKES HIGH PERFORMANCE CARTRIDGE, POWER

96	25266	COUPLING, SHAFT: TYPE: GEAR; BORE: 100 MM; OUTSIDE DIAMETER: 160 MM; LENGTH: 560 MM; MATERIAL: STL; GRADE: HT; SPECIFICATION: ISO 9001; SUPPL P/N: ZLS2; FOR STEAM FEED PUMP TO BOOSTER PUMP MAAG GEARBO
97	25668	COUPLING, SHAFT: TYPE: GEAR; BORE: TAPER, CYLINDRICAL; OUTSIDE DIAMETER: 275 MM; LENGTH: 490 MM; MATERIAL: STL; GRADE: GUN STL; HOLE SIZE: 15 MM; HOLE: 16; SPECIFICATION: ISO 9001; SUPPL P/N: 704-0266-02-2; ZES-6/5-YK; FOR USE BETWEEN FEED PUMP AND TURBOGEAR
98	26462	COUPLING, SHAFT: TYPE: GEAR; BORE: 250 MM; OUTSIDE DIAMETER: 430 MM; LENGTH: 245 MM; MATERIAL: STL; HOLE SIZE: NILL; HOLE: NILL; PCD: NILL; SPECIFICATION: ISO 9001; DRAWING NO: 706.002/13.01 REV 1; REFERENCE NO: ZNX F10; FOR 50 PCT BOILER FEED PUM
99	28426	GEAR, SPUR: TYPE: PLAIN; TEETH: 11; OUTSIDE DIAMETER: 115 MM; FACE WIDTH: 118 MM; MATERIAL: STL; DRAWING NO: 699P10079D REV 1; REFERENCE NO: 744I1490260; AND SHAFT, TO GEC ITEM 402, FOR USE WITH BOILER FEED PUMP TURBINE MAIN OIL PUMP; DIAMETRAL PITCH: 0.113; PITCH DIAMETER: 97.3MM
100	28427	GEAR, SPUR: TYPE: PLAIN; TEETH: 11; OUTSIDE DIAMETER: 117 MM; BORE: 44 MM; FACE WIDTH: 25 MM; MATERIAL: STL; DRAWING NO: GEC 699P10079D REV 1; REFERENCE NO: 744I149-0262; PUMP; FOR USE WITH BOILER FEED PUMP TURBINE POWER OIL PUMP; DIAMETRAL PITCH: 0.111; PITCH DIAMETER: 99MM
101	31969	BEARING, SLEEVE: TYPE: JOURNAL; INSIDE DIAMETER: 175 MM; OUTSIDE DIAMETER: 212 MM; LENGTH: 89 MM; MATERIAL: WHITE METAL BABBITTED; REFERENCE NO: 610A1-10430-1; FOR USE WITH BOILER FEED PUMP TURBINE STEAM END
102	34219	SLEEVE: TYPE: CONTROL; DIMENSIONS: ID 35 X OD 80 X LG 415 MM; MATERIAL: BRZ; APPLICATION: GEARBOX; SPECIFICATION: ISO 9001; SUPPL P/N: TCR40415440; MODEL NO: R110KGS; FOR USE ON VOITH TURBO GEARBOX
103	42766	BUSH: TYPE: GUIDE; INSIDE DIAMETER: 50 MM; OUTSIDE DIAMETER: 180 MM; LENGTH: 230 MM; MATERIAL: STL; APPLICATION: GEARBOX; SPECIFICATION: ISO 9001; SUPPL P/N: TCR40414790; MODEL NO: R110KGS
104	42960	RING: TYPE: SCRAPER; INSIDE DIAMETER: 48 MM; OUTSIDE DIAMETER: 57 MM; WIDTH: 7 MM; MATERIAL: NEOPRENE; GRADE: BUNA; APPLICATION: GEARBOX; RATING: 5.25 MPA; STYLE: ROUND; COLOR: UNPAINTED; SPECIFICATION: ISO 9001; SUPPL P/N: TCR49925306; MODEL NO: R110KGS; FOR USE ON VOITH GEARBOX
105	45136	ASSEMBLY: TYPE: SCOOP TUBE; SUPPL P/N: TCR40346360; MODEL NO: R110KGS; FOR USE ON VOITH GEARBOX
106	45659	STRAINER: TYPE: SUCTION; MATERIAL: STAINLESS STEEL; MODEL NO: HZB253-640; FOR 50 PCT BOOSTER

107	45660	STRAINER: TYPE: SUCTION; DIMENSIONS: OD 1.09 X WD 1 M; MATERIAL: STL; MODEL NO: HZB302-580; REFERENCE NO: 1-104-600-664; FOR SULZER FEED PUMP
108	45919	ROD: TYPE: SCOOP TUBE CONTROL; DIMENSIONS: DIA 5 X LG 425 MM; MATERIAL: STL; APPLICATION: GEARBOX; SPECIFICATION: ISO 9001; SUPPL P/N: TCR40414620; MODEL NO: R110KGS; FOR USE ON VOITH GEARBOX
109	45921	ROD: TYPE: OIL CONTROL; DIMENSIONS: DIA 5 X LG 265 MM; MATERIAL: STL; APPLICATION: VOITH GEARBOX; SPECIFICATION: ISO 9001; SUPPL P/N: TCR40414610; MODEL NO: R110KGS; FOR USE ON VOITH GEARBOX
110	49020	PUMP: TYPE: WORKING OIL; SIZE: DN 65; CAPACITY: 18.33 L/S; SPEED: 48.5 RPM; RATING: 3.5 BAR; DRIVER: ELECTRIC MOTOR; SPECIFICATION: ISO 9001; FURNISHED ITEMS: STAND; CASING MATERIAL: CAST STEEL; APPLICATION: GEARBOX; SUPPL P/N: DMY000107; DRAWING NO: 3.623.6899 REV 1; MODEL NO: R110KGS; ETA65-20VL; REFERENCE NO: 00010041031; DRIVER WITHOUT MOTOR
111	67569	DISC, VALVE: MATERIAL: STL; VALVE STYLE: PLUG; DIMENSIONS: DIA 43.5 X WD 30 MM; VALVE SIZE: 1-1/4 IN; SUPPL P/N: 32332-140; FOR HOPKINSON; FEMALE
112	67640	SPRING, COMPRESSION: INSIDE DIAMETER: 74 MM; OUTSIDE DIAMETER: 98 MM; LENGTH: 95 MM; MATERIAL: STAINLESS STEEL; SUPPL P/N: 5H530-59E 668.0317; DISC, ITEM NO: 6680317, FOR USE WITH DEWRANCE VALVE, P34 ER 500 BDRA; PRESSURE RATING: 300 LB; VALVE SIZE: 500 MM
113	67665	VALVE, CHECK: TYPE: TILTING DISC; VALVE SIZE: 80 MM; DESIGN RATING: 1500 LB; TEMPERATURE RATING: 3705 PSI AT 100 DEG F; CONNECTION: BW; BODY MATERIAL: STL ASTM A105 FORGED; STYLE: BOLTED CAP; TRIM: DISC/SEAT HF; GRADE: WCB; REFERENCE NO: F73DZ080NFDA; DEWRANCE NON RETURN
114	67668	DISC, VALVE: MATERIAL: STL; VALVE STYLE: CHECK; DIMENSIONS: DIA 380 X THK 60 MM; REFERENCE NO: 54530-58D
115	68907	SEAT, VALVE: DIMENSIONS: OD 475 X WD 90 MM; MATERIAL: STL; SUPPL P/N: 75/0072 ST/1 WCB LB MI; REFERENCE NO: 1165A
116	78510	PISTON: TYPE: PILOT VALVE; DIMENSIONS: DIA 25.4 X LG 103 MM; MATERIAL: STEEL; OEM P/N: 626D10193/1, OEM: GE STEAM POWER SERVICE; DRAWING NO: 626X10214/7 REV F; 699P10079/D REV 1; GEC SCHEDULE NO: 74411490087, FOR BFPT NOZZLE VALVE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
117	78511	PISTON: DIMENSIONS: DIA 1 X LG 2 IN; MATERIAL: STL; DRAWING NO: 699P10079/D REV 1; REFERENCE NO: N626D10191-1; GEC SCHEDULE NUMBER: 626D10191/1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
118	80227	TAP SET, THREAD CUTTING: TAP SIZE: M45; THREAD: 1.5 MM; MATERIAL: HSS; QUANTITY: 3; TYPE: TAPER; SECOND; BOTTOM; HAND

119	82528	SCREW, CAP: DIAMETER: M6; LENGTH: 12 MM; THREAD: 1 MM; HEAD: SOCKET HEX; MATERIAL: STL
120	84216	BOLT: TYPE: COUPLING 1=1 EA; DIAMETER: M16; LENGTH: 62 MM; HEAD: D; GRADE: HT; MATERIAL: STL; THREAD: 2 MM; SPECIFICATION: BS 1506; PROTECTIVE COATING: NONE; FURNISHED ITEMS: NUT; SUPPL P/N: 704-0265-02-2; MODEL NO: ZES-8/7YK; FOR USE ON MAAG GEAR COUPLING; GRADE 621B
121	84307	BOLT: TYPE: COUPLING; DIAMETER: 12 MM; LENGTH: 28 MM; HEAD: HALF RD; GRADE: 12.9; MATERIAL: HTS; THREAD: 1.25 MM; THREAD LENGTH: 14 MM; SPECIFICATION: ISO 9001; PROTECTIVE COATING: TECTILE; FURNISHED ITEMS: SELLOCK NUT; SUPPL P/N: 706 5200.08.4; MODEL NO: ZLS2
122	84308	BOLT: TYPE: COUPLING 12/SET; DIAMETER: M6; LENGTH: 12 MM; MODEL NO: ZLS-2; WASHER, FOR MAAG GEAR COUPLING , TO BE SUPPLIED AS A SE
123	84613	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M24; LENGTH: 100 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 57 MM; THREAD: 3 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; COARSE THREAD FREE FIT.; SPECIFICATION: SABS 135
124	91872	WASHER, TAB: TYPE: 3 TAB; INSIDE DIAMETER: 5/8 IN; OUTSIDE DIAMETER: 1 IN; THICKNESS: 1/32 IN; MATERIAL: STAINLESS STEEL; DRAWING NO: GEC 699P10079D REV 1; FOR USE ON OVERSPEED TRIP AND NV ACTUATOR
125	93466	PIN: TYPE: SCOOP TUBE CONTROL; DIAMETER: 45 MM; LENGTH: 344 MM; MATERIAL: STL; SPECIFICATION: ISO 9001; SUPPL P/N: TCR40303520; MODEL NO: R110KGS; FOR USE ON VOITH GEARBOX
126	107913	SEAL, OIL: INSIDE DIAMETER: 68.5 MM; OUTSIDE DIAMETER: 92.5 MM; WIDTH: 9.5 MM; MATERIAL: RUBBER; SPRING LOADED: NO; REFERENCE NO: D1275; SCRAPER
127	107914	GASKET, PRE CUT: DIMENSIONS: WD 240 X LG 650 X THK 1 MM; MATERIAL: KLINGERITE; SHAPE: RECT; DRAWING NO: GEC 699P10079D REV 1; REFERENCE NO: 202203; SCHEDULE NUMBER: 744I149-0092, 0093
128	110224	SPRING, COMPRESSION: INSIDE DIAMETER: 13 MM; OUTSIDE DIAMETER: 19 MM; LENGTH: 27 MM; MATERIAL: STAINLESS STEEL; REFERENCE NO: C8315-301; DISC; FOR USE WITH HOPKINSON SIZE 100MM NOMINAL BORE PARALLEL SLIDE VALVE; VALVE SIZE: 100 MM
129	111999	SPRING, COMPRESSION: INSIDE DIAMETER: 117 MM; OUTSIDE DIAMETER: 151 MM; LENGTH: 195 MM; COILS: 6; MATERIAL: STL; DRAWING NO: 699P10079D REV 1; GEC; SCHEDULE NUMBER: 744I149-0089
130	112005	SPRING, COMPRESSION: INSIDE DIAMETER: 70 MM; LENGTH: 2.76 M; COILS: 11; MATERIAL: STL; DRAWING NO: 699P10079D REV 1; GEC ITEM NUMBER: 388, SCHEDULE NUMBER: 744I149-0249

131	112006	SPRING, COMPRESSION: INSIDE DIAMETER: 35 MM; OUTSIDE DIAMETER: 48 MM; LENGTH: 153 MM; COILS: 13; MATERIAL: STL; DRAWING NO: 699P10079D REV 1; GEC; SCHEDULE NUMBER: 744I149-0251
132	112007	SPRING, COMPRESSION: INSIDE DIAMETER: 25 MM; OUTSIDE DIAMETER: 44 MM; LENGTH: 145 MM; COILS: 13; MATERIAL: STL; DRAWING NO: 699P10079D REV 1; GEC ITEM NUMBER: 391, SCHEDULE NUMBER: 744I149-0252 AND 0254
133	112008	SPRING, COMPRESSION: LENGTH: 35 MM; COILS: 12; MATERIAL: STL; DRAWING NO: 699P10079D REV 1; REFERENCE NO: 744I149-0283; TO GEC ITEM 392, DESPATCHED; FOR USE WITH OIL CONSOLE; SIZE: 10MM DIA
134	112009	SPRING, COMPRESSION: INSIDE DIAMETER: 35 MM; OUTSIDE DIAMETER: 49 MM; LENGTH: 152 MM; COILS: 12; MATERIAL: STL; DRAWING NO: 699P10079D REV 1; GEC; SCHEDULE NUMBER: 744I149-0256
135	112010	SPRING, COMPRESSION: INSIDE DIAMETER: 51 MM; OUTSIDE DIAMETER: 60 MM; LENGTH: 126 MM; COILS: 8; MATERIAL: STL; DRAWING NO: 699P10079/D REV 1; GEC ITEM NO: 393, SCHEDULE NO: 744I1490254, FOR USE ON HP NOZZLE AND CYL
136	112011	SPRING, COMPRESSION: INSIDE DIAMETER: 64 MM; OUTSIDE DIAMETER: 75 MM; LENGTH: 149 MM; COILS: 8; MATERIAL: STL; SUPPL P/N: 2J 4111
137	177564	BUNDLE: TYPE: EFP WORKING OIL COOLER; TUBES PER BUNDLE: 690; TUBE SIZE: ID 10MM X OD 12MM X LG 2.745M; MATERIAL: CUZN20AIF34; REFERENCE NO: M6-SS108-2; TUBE BUNDLE; EFP WORKING
138	177565	COOLER: TYPE: EFP WORKING OIL; DIMENSIONS: DIA 500 MM X LG 3.25 M; RATING: 6 BAR AT 120 DEG C; SERIES: M6-SS108-2; COMPLETE WITH SHELL AND WATER BOXES, WATER BOX MATERIAL 316 SS, MAX TEMP 150 DEG C, 690 TUBES PER BUNDLE, TUBE SIZE 10 MM X 12 MM X 2.745 M LONG, MATERIAL CUZN20AIF34; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
139	177572	BUNDLE: TYPE: EFP LUBE OIL COOLER; TUBES PER BUNDLE: 490; TUBE SIZE: ID 10 MM X OD 12 MM X LG 3.045 M; MATERIAL: TUBE: CUNI30FEF37 SERCUNIK; DRAWING NO: 2-35944 REV 0; MODEL NO: R110KGS; REFERENCE NO: M6-SS120-2; 5681-5602; TUBE PLATE MATERIAL: CUA110NI; TUBE PLATE EXPANSION END: 25MM; TUBE PLATE FIXED END: 20MM

140	177573	COOLER: TYPE: EFP LUBE OIL; DIMENSIONS: DIA 450 MM X LG 3.045 M; RATING: 6 BAR AT 120 DEG C; SERIES: 5681-5602; DRAWING NO: 2-35944 REV 0; MODEL NO: R110KGS; REFERENCE NO: 5681-5602; M6-SS120-2; BUNDLE: TYPE: EFP LUBE OIL COOLER, COMPLETE WITH SHELL AND WATER BOXES, WATER BOX MATERIAL 316 SS; TUBES PER BUNDLE: 490, WORKING PRESS: 6 BAR, MAX TEMP: 100 DEG, TUBE SIZE: ID 10 MM X OD 12 MM X LG 3.045 M; MATERIAL: TUBE: CUNI30FEF37 SERCUNIK, TUBE PLATE MATERIAL: CUA110NI, TUBE PLATE EXPANSION END: 25 MM, TUBE PLATE FIXED END: 20 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
141	178031	VALVE, CHECK: TYPE: SWING; VALVE SIZE: 300 MM; DESIGN RATING: 39 MPA G; TEMPERATURE RATING: 145 DEG C; CONNECTION: BUTT WELD; BODY MATERIAL: 15NICU MON65; FACE TO FACE LENGTH: 1.7 M; OPERATED: NRV; STYLE: BOLTED CAP; TRIM: STL; SOFTGOODS: GRAPHITE; APPLICATION: BOILER FEED WATER PUMP; SUPPL P/N: 103-157-157-000; RSK280/25; CONSISTING OF: HOUSING; COVER; PRESSURE SEAL PLUG; BOLTS AND NUT
142	178032	VALVE, CHECK: TYPE: SWING; VALVE SIZE: 400 MM; CONNECTION: BW; BODY MATERIAL: STL; STYLE: BOLTED CAP; TRIM: DISC STL; SUPPL P/N: RSK380/25; REFERENCE NO: 103-157-473-000; CONSISTING OF: HOUSING; COVER; PRESSURE SEAL PLUG; BOLTS AND NUT
143	178159	VALVE, GATE: VALVE SIZE: 400 MM; TYPE: PARALLEL SLIDE; CONNECTION: BW; BODY MATERIAL: 1-1/4CR1/2MO FORGED; OPERATED: HANDWHEEL; STEM DESIGN: RISING SPINDLE; STYLE: BOLTED BONNET; DESIGN RATING: 250 BAR; SUPPL P/N: P71H; DEWRANCE; FOR USE ON LOW
144	178162	VALVE, GATE: VALVE SIZE: 16 IN; TYPE: PARALLEL SLIDE; CONNECTION: BW; BODY MATERIAL: A216; TRIM: SEAT NI ALLOY; OPERATED: HANDWHEEL; SOFTGOODS: PACKING CARBON FIBER/GRAPHITE; STEM DESIGN: RISING SPINDLE; STYLE: BOLTED BONNET; TEMPERATURE RATING: 112 BAR AT 475 DEG C; GRADE: WCB; DESIGN RATING: 420 BAR; VENTURI
145	178163	VALVE, GATE: VALVE SIZE: 400 MM; TYPE: PARALLEL SLIDE; CONNECTION: BW; TRIM: SEAT NI MO ALLOY; OPERATED: HANDWHEEL; SOFTGOODS: PACKING CARBON FIBER/GRAPHITE; STEM DESIGN: RISING SPINDLE; STYLE: BOLTED BONNET; TEMPERATURE RATING: 112 BAR AT 475 DEG C; DESIGN RATING: 420 BAR; VENTURI
146	179609	GLAND, PACKING: DIMENSIONS: ID 47 X OD 67.5 X THK 100 MM; TYPE: LIVE LOADING CARTRIDGE; MATERIAL: GRAPHITE; SUPPL P/N: AES/47X67.5/CAR/DIE/PRE/C/340/360; TO BE BOXED, WRAPPED AND DUST SEALED TO PREVENT ANY DAMAGE
147	180211	PLUG, VALVE: VALVE STYLE: NON RETURN; MATERIAL: STEEL; SUPPL P/N: 119-023-062-217; RSK280/25

148	180213	PLUG, VALVE: VALVE STYLE: NRV; VALVE SIZE: 380 MM; MATERIAL: STL; SUPPL P/N: RSK380/25; 119-023-062-206; PRESSURE SEAL; FOR USE ON NON-RETURN
149	180215	LEVER: TYPE: VALVE FLAP; MATERIAL: STL; SUPPL P/N: 119-023-062-215; RSK280/25; FOR USE ON NON RETURN VALVE RSK280/25; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
150	180218	SEAT, VALVE: VALVE STYLE: NON RETURN; VALVE SIZE: 250 MM; MATERIAL: STL; SUPPL P/N: RSK280/25; REFERENCE NO: 119-023-062-214; 5
151	180219	SEAT, VALVE: VALVE STYLE: NON RETURN; VALVE SIZE: 380 MM; MATERIAL: STL; MODEL NO: RSK380/25; REFERENCE NO: 5; 119-023-062-210
152	180221	PIN: TYPE: NRV; DIAMETER: 35 MM; LENGTH: 172 MM; MATERIAL: X20CE13; SPECIFICATION: ISO 9001; SUPPL P/N: RSK280/25; 119-023-062-219; FOR USE ON NON-RETURN VALVE RSK280/25
153	180222	PIN: TYPE: NRV; DIAMETER: 35 MM; LENGTH: 192 MM; MATERIAL: X20CE13; SPECIFICATION: ISO 9001; SUPPL P/N: 119-023-062-209; RSK380/25; FOR USE ON NON-RETURN VALVE RSK380/25
154	180224	BUSH, VALVE: TYPE: PIVOT; VALVE SIZE: 280 MM; MATERIAL: STL; INSIDE DIAMETER: 35 MM; OUTSIDE DIAMETER: 45 MM; LENGTH: 80 MM; SPECIFICATION: ISO 9001; MODEL NO: RSK280/25; REFERENCE NO: 119-023-062-216; FOR USE ON NON RETURN VALVE; LENGTH: 80MM
155	180226	PACKING: TYPE: BONNET; LENGTH: 30 MM; WIDTH: 360 MM; MATERIAL: GRAPHITE; SHAPE: RD; THICKNESS: 30 MM; SPECIFICATION: ISO 9001; DIAMETER: ID 320 X OD 360 MM; MODEL NO: RSK280/25; REFERENCE NO: 119-023-062-317; ITEM TO BE PACKED WITH HARD BACKING TO PREVENT DAMAGE
156	180228	WASHER, LOCK: INSIDE DIAMETER: 32 MM; OUTSIDE DIAMETER: 35 MM; THICKNESS: 1.5 MM; NOMINAL SIZE: M20; MATERIAL: STAINLESS STEEL; TYPE: NRV; GRADE: 316; SPECIFICATION: ISO 9001; MODEL NO: RSK280/25; REFERENCE NO: 119-023-062-211; FOR USE ON NON-RETURN VALVE
157	180229	WASHER, LOCK: INSIDE DIAMETER: 38 MM; OUTSIDE DIAMETER: 41 MM; THICKNESS: 1.5 MM; NOMINAL SIZE: M25; MATERIAL: STAINLESS STEEL; TYPE: NRV; GRADE: 316; SPECIFICATION: ISO 9001; MODEL NO: RSK380/25; REFERENCE NO: 3-119 600 089
158	184362	SEAL, RING: TYPE: BONNET; INSIDE DIAMETER: 380 MM; OUTSIDE DIAMETER: 430 MM; THICKNESS: 40 MM; MATERIAL: GRAPHITE SS REINFORCED; PREPRESSED, STAINLESS STEEL CUPS, FINE FINIS
159	229756	HOUSING: TYPE: EFP BOOSTER PUMP; DIMENSIONS: DIA 926 MM X HT 2.146 M; MATERIAL: BS 1501-151 GR 430; DRAWING NO: 0-104.600.666 AND 1-104.600.779 REV 1; SUCTION STRAINER, COMPLETE, AS PER SULZER DESIGN; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).

160	229757	HOUSING: TYPE: EFP BOOSTER PUMP; DIMENSIONS: DIA 926 MM X HT 2.146 M; MATERIAL: BS 1501-151 GR 430; DRAWING NO: 0-104.600.666 AND 1-104.600.779 REV 1; SUCTION STRAINER, COMPLETE, AS PER SULZER DESIGN; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
161	239951	COUPLING, SHAFT FLEXIBLE: TYPE: TURBOFLEX 545; BORE DIAMETER: 85 MM; MATERIAL: STL; SUPPL P/N: HBS1000-8; LENGTH: 545MM; OUTSIDE DIAMETER: 246MM; INSULATED, USED BETWEEN 50 PCT BOOSTER PUMP HZB 253 640 AND MOTOR; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
162	240023	COUPLING, SHAFT FLEXIBLE: TYPE: TURBOFLEX 600; BORE DIAMETER: 90 MM; MATERIAL: STL; SUPPL P/N: HBS1000-8; 246 MM OUTSIDE DIAMETER, 600 MM LENGTH, FOR USE BETWEEN GN 25 MAAG GEARBOX AND 100PCT BOOSTER 302-580; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
163	254877	HOUSING: TYPE: SUCTION STRAINER; DIMENSIONS: DIA 1.39 M X HT 355 MM; MATERIAL: BS 1501-151 GR 430; DRAWING NO: 0-104.600.663 REV 1; FOR BFPT BOOSTER PUMP; LID, AS PER SULZER DESIGN; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
164	586846	BOLT: TYPE: COUPLING 1ST=32; DIAMETER: M12; LENGTH: 46 MM; HEAD: SEMI ROUND; GRADE: 12.9; MATERIAL: STL; THREAD: 1.75 MM; MANUF P/N: 706-5202-16; MODEL NO: ZES-4.5 / 6.5YK; EACH BOLT COMPLETE WITH WASHER AND NUT; FOR USE ON MAAG COUPLING
165	624571	KIT: TYPE: SEALING; APPLICATION: SCOOP TUBE; COMPRISING: O-RINGS; SPECIFICATION: ISO 9001; MODEL NO: R110KGS; REFERENCE NO: TPP104-695-000-527; FOR USE ON VOITH GEARBOX; COMPRISING OF: 1 OFF 51,2 MM X 5,7MM NRB 70; 2 OFF 180 MM X 5MM NRB 70; 1 OFF 179,2 MM X 5,7MM NRB 70; 1 OFF 330 MM X 3MM NRB 70; 1 OFF 325 MM X 3MM NRB 70; 2 OFF 30 MM X 4MM NRB 70; IITEMS TO BEPACKED IN A BLACK SEALED POLYURETHANE BAG AS A SET. FOR SHELF LIFE CONROL,EACH BAG TO BE CLEARLY MARKED WITH CONTENTS, QUANTITY, BATCH NUMBER AND CURE DATE
166	663311	COUPLER, HOSE: TYPE: MALE BALL QUICK; SIZE: 10 MM; CONNECTION: BSP 3/8 IN; MATERIAL: STEEL; MANUF P/N: 101.11232AC; REFERENCE NO: INTEVA 101; DESIGNED FOR HYDRAULIC OIL TO EAUROPEAN DIRECTIVE 97.23.EC; EPDM O-RING; 300 BAR; FOR SSC TAKE-UP
167	685098	BOLT: TYPE: METRIC; DIAMETER: M30; LENGTH: 125 MM; HEAD: HEX; GRADE: B16; MATERIAL: BS4882; THREAD: 3.5 MM; THREAD LENGTH: 60 MM; SPECIFICATION: GRADE B16; FURNISHED ITEMS: NUT; BOLT ASSEMBLY; COMPLETE WITH NUT; FOR USE ON 100% FEED PUMP SUCTION STRAINER

168	100463	SEAL: TYPE: BLADE; DIMENSIONS: WD 55 X LG 240 X THK 2 MM; MATERIAL: MS; APPLICATION: METROFLEX ISOLATOR; SUPPL P/N: 250/S; FT3/050/316/MS, 2MM THICK, 3 HOLE WITH 6MM X 30MM BOLT, LOCKNUT AND WASHER
169	92855	PIN, SPRING: DIAMETER: 12 MM; LENGTH: 90 MM; MATERIAL: STL; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
170	136188	INSULATOR: TYPE: WIRE RAPPING; DIMENSIONS: LG 550 MM; MATERIAL: PORCELAIN; DRAWING NO: LURGI LSA12063/T REV 1; REFERENCE NO: EL017545; FOR USE WITH PRECIPITATOR
171	194331	SOLVENT: TYPE: ELECTRICAL CLEANER; CONTAINER: 25 L; SUPPL P/N: FO655; MATERIAL SAFETY DATA SHEETS WITH ENVIRONMENTAL INFORMATION IN THE 16 POINT FORMAT TO BE PROVIDED WITH EVERY DELIVERY AS REQUIRED BY THE OCCUPATIONAL HEALTH AND SAFETY ACT; ENVIRO
172	24420	FILTER, ELEMENT: DIMENSIONS: ID 22 X OD 47 X LG 84 MM; MATERIAL: GLASS FIBER; REFERENCE NO: 0060D010BNHC2; BETAMICRON
173	34533	BEARING, SLEEVE: TYPE: BEARING NO 4, 6 PEDESTAL NO 4; INSIDE DIAMETER: 20.006 IN; OUTSIDE DIAMETER: 21-1/2 IN; LENGTH: 10 IN; MATERIAL: WHITE METAL LINED; OEM P/N: M210(A0)40306, OEM: GE STEAM POWER SERVICE; R210/1201/1-3, OEM: GE STEAM POWER SERVICE; DRAWING NO: R210(A0)1262/5 REV 0; R210(A0)1262/4 REV 0; 200(A0)40872/2127 REV 0; R210(A0)1202 REV 0; 200(A0)40872/2128 REV 0; CONSISTING OF TOP HALF R210(A0)1201/1 AND BOTTOM HALF R210(A0)1201/2; DISPATCHED SCHEDULE 7ACM 0151096 AND 7ACM 0151097, ISSUED TO DUVHA POWER STATION
174	34534	BEARING, SLEEVE: TYPE: JOURNAL; INSIDE DIAMETER: 515 MM; OUTSIDE DIAMETER: 540 MM; LENGTH: 304 MM; MATERIAL: WHITE METAL BABBITTED; OEM P/N: M210A40066/2, OEM: GE STEAM POWER SERVICE; DRAWING NO: M210(A0)40308 REV 1; TUTUKA M210(A0)40310/6 REV 0; REFERENCE NO: R200A0-40872; SHELL NUMBERS 5;6;7 AND 8, TOP AND BOTTOM, FOR USE WITH PEDESTAL 3;4 AND 5
175	133984	KIT, VALVE REPAIR: TYPE: IP CONTROL; APPLICATION: GOVERNOR; OEM P/N: R225(A0)814, OEM: GE STEAM POWER SERVICE; DRAWING NO: R225(A0)806 COMB 04 REV 0; R222(A0)973 REV 1; MODULE ASSY IP STOP COVER INTERMEDIATE PRESSURE CYLINDER, IN ACCORDANCE WITH GEC
176	133985	KIT, VALVE REPAIR: TYPE: IP STOP COVER; APPLICATION: TURBINE; OEM P/N: R225(A0)814, OEM: GE STEAM POWER SERVICE; DRAWING NO: TUTUKA R225(A0)814 COMBO 01 REV 0; R253(A0)3624 REV 1; R255(A0)814 REV 1; R253(A0)3624 REV 1

177	177182	PAD, BEARING: TYPE: FRONT; DIMENSIONS: THK 35 MM; MATERIAL: BRASS; OEM P/N: M215(A1)40025/1, OEM: GE STEAM POWER SERVICE; DRAWING NO: M200(A0)40872 REV 1; R215(A0)819; REFERENCE NO: 7ABR7355203; THRUST; RING SET; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
178	94307	O RING, CORD: MATERIAL: NEOPRENE; THICKNESS: 8 MM; SHORE HARDNESS: 75 DEG; SIZE: 10M LG, BLACK, SHELF LIFE, DATE OF MANUFACTURE AND METHOD OF STORAGE REQUIRED WITH DELIVERY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
179	100705	SHEET, GASKET: THICKNESS: 1.5 MM; LENGTH: 2 M; WIDTH: 1.5 M; MATERIAL: NON ASB FIBER COMPRESSED; SPECIFICATION: BS 2815-1973/1832 2815A; REFERENCE NO: 3XA; KLINGER GRADE TOP GRAPH 2000 BLACK, MAXIMUM TEMPERATURE 300 DEGREE CELCIUS, MAXIMUM PRESSURE 40 BAR, BOTH SIDES, NOT WIRE REINFORCED, PLAIN, ONE SHEET/7.7 KG
180	100939	KIT: TYPE: MAJOR SERVICE; APPLICATION: OIL PURIFIER; SUPPL P/N: 63000; MOPX209; REFERENCE NO: 99-999204-06; 1 X BALL BEARING PART NO 8419, 1 X GASKET PART NO 65211, 5 X GASKET FITS AS 68592 PART NO 223318-05, FOR USE WITH MACHINE BOTTOM PART INCLUDING DRIVE PART NO 223412-21, 1 X SEAL RING PART NO 73547, 1 X BALL BEARING PART NO 68827, 1 X BALL BEARING PART NO 6525, 1 X GASKET PART NO 38164, 1 X BALL BEARING PART NO 7026, 1 X BALL BEARING PART NO 8726, 3 X FRICT PAD FIT AS 71627 PART NO 420843-81, 1 X O RING PART NO 65201, 1 X GASKET PART NO 65192, 1 X O RING PART NO 64104, 1 X BALL BEARING PART NO 60992, 1 X BALL BEARING PART NO 65186, 1 X BALL BEARING PART NO 65187, 1 X BALL BEARING PART
181	100940	KIT: TYPE: INTERMEDIATE SERVICE; APPLICATION: OIL PURIFIER; SUPPL P/N: MOPX209; 547665-80; COMPRISING: 1 X GASKET PART NUMBER 67575, 1 X O RING PART NUMBER 42154, 1 X O RING PART NUMBER 223406-08, 1 X O RING PART NUMBER 67587, 1 X SEAL RING PART NUMBER 71440, 1 X O RING PART NUMBER 223401-77, 1 X GASKET PART NUMBER 517774-02, 1 X O RING PART NUMBER 223412-05, 3 X VALVE PLUG PART NUMBER 518549-01, 1 X NOZZLE PART NUMBER 71433, 1 X O RING PART NUMBER 223408-04, 1 X O RING FOR MOPX309/310 PART NUMBER 223412-34, 1 X SILICONE GREASE PART NUMBER 539474-03, FOR USE WITH SEPARATOR BOWL

182	100941	KIT: TYPE: INTERMEDIATE SERVICE; APPLICATION: OIL PURIFIER; SUPPL P/N: 547666-80; MOP X209; COMPRISING: 1 X O RING PART NUMBER 67566; 2 X O RING PART NUMBER 223408-04; 1 X O RING PART NUMBER 67675; 1 X GASKET PART NUMBER 70923; 1 X O RING PART NUMBER 71866; 1 X O RING PART NUMBER 73212; 1 X GASKET PART NUMBER 71069; 2 X SEAL RING PART NUMBER 517672-02; 1 X GASKET PART NUMBER 190603; 2 X O RING 2 FOR MOPX310 PART NUMBER 223406-31; FOR USE WITH MACHINE TOP PART INCLUDING INLET/OUTLET DEVICE
183	20377	BLADDER, ACCUMULATOR: RATED CAPACITY: 20 L; PRESSURE RATING: 20 MPA; MATERIAL: BUTYL; SPECIFICATION: 7/8" X UNF CS STEM/ 1/4" BSP; COMPLETE WITH SEAL KIT AND ANTI-EXTRUSION RING; ALL RUBBER PARTS MUST BE COMPATABLE TO CASTROL ANVOL PE46HR AND CASTROL ANVOL PE46M; A CERTIFICATE CONFIRMING THAT THEY COMPLY WITH ABOVE SPECIFICATION TO ACCOMPANIED EACH DELIVERY
184	23767	FILTER, ELEMENT: TYPE: TURBINE; DIMENSIONS: ID 44 X OD 80 X LG 430 MM; MATERIAL: GLASS FIBER; FILTERING RETENTION: 10 UM; REFERENCE NO: HC9601FDP16Z
185	23782	FILTER, ELEMENT: TYPE: TRAP; MATERIAL: PAPER; SUPPL P/N: 02P08/5P; DRAWING NO: GEC 200(A0)6420/171 REV 1; REFERENCE NO: 02P08SP; FILTRATION TYPE: P6018-1A2; MARK ONLY WITH BOWER MANUFACTURER'S SPECIFICATION; CERTIFICATE MUST BE SUBMITTED ON DELIVERY
186	24757	FILTER: TYPE: FULLER EARTH; SUPPL P/N: HT718-00-CN; HILCO FULLERS EARTH ELEMENTS
187	40016	FILTER, ELEMENT: TYPE: FRF FILTER; DIMENSIONS: ID 25 X OD 45 X LG 114 MM; MATERIAL: FIBER INORGANIC, EPOXY RESIN BONDED/IMPREGNATED, CAROLAN MEDIA ONLY; FILTERING RETENTION: 5 UM; SPECIFICATION: BETA 1000 ; ISO 16889 ; ISO 4406 12/09/07; MANUF P/N: HC9021FCP4Z; SUPPL P/N: HC9021FDP4Z; REFERENCE NO: G32B; PRESSURE RATIONG : 210 BAR :
188	58743	COUPLING: SIZE: ID 30 X OD 45 X LG 50 MM; MATERIAL: PU; WITH RUBBER BUSH; FOR USE WITH FIRE RESISTANCE FLUID SYSTEM
189	66215	PLUG, VALVE: MATERIAL: STAINLESS STEEL; REFERENCE NO: 27A9851X012
190	78166	DIAPHRAGM, VALVE: DIMENSIONS: ID 13 X OD 33 X THK 1.5 MM; MATERIAL: PTFE; FOR FISHER VALVE AKZ NO:RF61S032; TYPE: 657 EWJ 8 IN X 6 IN; CONSISTING OF BONNET GASKET NO: 1U5081X0052; PISTON RING NO: 12A6120X012
191	93458	PIN: TYPE: FISHER VALVE; DIAMETER: 3/16 IN; LENGTH: 1.06 IN; MATERIAL: SS GR 316; REFERENCE NO: 1V326035072; FOR 3/4 INCH STEM
192	185270	SEAT, VALVE: VALVE STYLE: CONTROL; VALVE SIZE: 4 IN; MATERIAL: STAINLESS STEEL; SUPPL P/N: 2V561846172; FOR USE ON 657,SERIES EAS

193	185273	CAGE, VALVE: VALVE STYLE: CONTROL; VALVE SIZE: 8 X 6 IN; MATERIAL: STAINLESS STEEL; SUPPL P/N: 23A7190X022; FOR USE ON VALVE TYPE 657,SERIES EWJ; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
194	63216	VALVE, GLOBE: VALVE SIZE: 50 MM; OPERATED: HANDWHEEL; CONNECTION: BW; BODY MATERIAL: 13CRMO44; TRIM: SEAT STELLITED; SOFTGOODS: COMPOSITE BRAIDED/GRAPHITE PREFORMED; STEM DESIGN: NON RISING SPINDLE; STYLE: INTEGRAL BONNET; DESIGN RATING: 250 BAR; TEMPERATURE RATING: 450 DEG C; REFERENCE NO: VKS11-250-50-10; HIGH PRESSURE STOP; SEMPELL; 24MM ID X 6MM OD; MATERIAL CERTIFICATES TO BE SUPPLIED WITH DELIVERY; NO CHANGES TO BE MADE TO DESCRIPTION UNLESS AUTHORISED BY WELDING ADMINSTRATOR; MATERIAL 10
195	66222	VALVE, GLOBE: VALVE SIZE: 50 MM; OPERATED: HANDWHEEL; CONNECTION: BW; BODY MATERIAL: 10CRMO910; TRIM: SEAT STELLITED; SOFTGOODS: COMPOSITE BRAIDED/GRAPHITE PREFORMED; STEM DESIGN: NON RISING SPINDLE; STYLE: INTEGRAL BONNET; DESIGN RATING: 50 BAR; TEMPERATURE RATING: 540 DEG C; SUPPL P/N: VA500-13-50-50-G.S.; VA500 SEMPELL; HIGH PRESSURE STOP; 38MM ID X 47MM OD; MATERIAL CERTIFICATES TO BE SUPPLIED WITH DELIVERY; NO CHANGES TO BE MADE TO DESCRIPTION UNLESS AUTHORISED BY WELDING ADMINISTRATOR; MATERIAL 13
196	66386	VALVE, GLOBE: VALVE SIZE: 50 MM; OPERATED: HANDWHEEL; CONNECTION: BW; BODY MATERIAL: 10CRMO910; TRIM: SEAT STELLITED; SOFTGOODS: COMPOSITE BRAIDED/GRAPHITE PREFORMED; STEM DESIGN: NON RISING SPINDLE; STYLE: INTEGRAL BONNET; DESIGN RATING: 50 BAR; TEMPERATURE RATING: 540 DEG C; SUPPL P/N: VA500-13-50-50-G.S.; VA500 SEMPELL; HIGH PRESSURE STOP; 38MM ID X 47MM OD; MATERIAL CERTIFICATES TO BE SUPPLIED WITH DELIVERY; NO CHANGES TO BE MADE TO DESCRIPTION UNLESS AUTHORISED BY WELDING ADMINISTRATOR; MATERIAL 13
197	67688	NUT: TYPE: SPINDLE; DIAMETER: 75 MM; THREAD: TR32 X 8LH MM; MATERIAL: BRONZE ALLOY; SPECIFICATION: PED MODULE G; MATERIAL GRADE: PB1; APPLICATION: CONTROL VALVE; DRAWING NO: 0.46013E REV 0
198	68772	VALVE, PLUG: VALVE SIZE: 70 MM; DESIGN RATING: 0.3-4.2 LB; BODY MATERIAL: STL ASTM A216; OPERATED: AIR ACTUATOR; SOFTGOODS: PACKING TFE; GRADE: WCC; SUPPL P/N: 657-EAS; REFERENCE NO: R13S007; TRIM 1 AR 3000 PLUG; BODY SIZE 4IN; RATING SCH 40BWE; TRAVEL 1-1/8IN

199	70750	VALVE, GLOBE: VALVE SIZE: 25 MM; OPERATED: HANDWHEEL; CONNECTION: BW; BODY MATERIAL: 15MO3 (11); TRIM: SEAT STELLITED; SOFTGOODS: GRAPHITE COMPOSITE BRAIDED/PREFORMED; STYLE: INTEGRAL BONNET; DESIGN RATING: 320 BAR; TEMPERATURE RATING: 500 DEG C; REFERENCE NO: VA500-11-1500-1-GS; 21MM ID X 35MM OD; MATERIAL AND PRESSURE TEST CERTIFICATES TO BE SUPPLIED
200	179573	GLAND, PACKING: DIMENSIONS: ID 20 X OD 26 X THK 40 MM; TYPE: LIVE LOADING CARTRIDGE; MATERIAL: GRAPHITE; SUPPL P/N: AES/20X26/CAR/DIE/PRE/C/355/360; TO BE BOXED, WRAPPED AND DUST SEALED TO PREVENT ANY DAMAGE
201	179594	GLAND, PACKING: DIMENSIONS: ID 29.5 X OD 46.5 X THK 100 MM; TYPE: LIVE LOADING CARTRIDGE; MATERIAL: GRAPHITE; SUPPL P/N: AES/28X45/CAR/DIE/PRE/C/340/360; TO BE BOXED, WRAPPED AND DUST SEALED TO PREVENT ANY DAMAGE
202	179603	GLAND, PACKING: DIMENSIONS: ID 45 X OD 55 X THK 55 MM; TYPE: LIVE LOADING CARTRIDGE; MATERIAL: GRAPHITE; SUPPL P/N: AES/45X52.8/CAR/DIE/PRE/C/355/360; TO BE BOXED, WRAPPED AND DUST SEALED TO PREVENT ANY DAMAGE
203	179607	GLAND, PACKING: DIMENSIONS: ID 52 X OD 60 X THK 57 MM; TYPE: LIVE LOADING CARTRIDGE; MATERIAL: GRAPHITE; SUPPL P/N: AES/52X60/CAR/DIE/PRE/C/340/360; TO BE BOXED, WRAPPED AND DUST SEALED TO PREVENT ANY DAMAGE
204	179633	SEAL: TYPE: BONNET; DIMENSIONS: ID 140 X OD 150 X THK 12 MM; MATERIAL: GRAPHITE; WITH 45 DEGREES TO INNER DIAMETER, TO BE WRAPPED TO PREVENT DAMAGE
205	666321	SPINDLE: TYPE: REGULATING VALVE; DIAMETER: 32 MM; LENGTH: 760 MM; MATERIAL: X35CRMO17; SPECIFICATION: PED MODULE G; THREAD PITCH: LH 8 MM; FURNISHED ITEMS: SPINDLE NUT; FEATHER; DRAWING NO: 0.46012-E REV 0; REFERENCE NO: 26820; MATERIAL CERTIFICATE TO BE PROVIDED ON EVERY DELIVERY
206	666322	SPINDLE: TYPE: REGULATING VALVE; DIAMETER: 20 MM; LENGTH: 570 MM; MATERIAL: X35CRMO17; SPECIFICATION: PED MODULE G; THREAD PITCH: LH 5 MM; FURNISHED ITEMS: SPINDLE NUT; FEATHER; DRAWING NO: 0.46014-E REV 0; REFERENCE NO: 27099; MATERIAL CERTIFICATE TO BE PROVIDED ON EVERY DELIVERY
207	666323	STOP: TYPE: LIMIT STROKE; DIMENSIONS: DIA 20 X LG 80 MM; MATERIAL: STL; COLOR: SILVER; MATERIAL CERTIFICATE TO BE PROVIDED ON EVERY DELIVERY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
208	666324	STOP: TYPE: LIMIT STROKE; DIMENSIONS: DIA 20 X LG 80 MM; MATERIAL: STEEL; COLOR: SILVER; DRAWING NO: 0.46014-E REV 0; MATERIAL CERTIFICATE TO BE PROVIDED ON EVERY DELIVERY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).

209	666653	VALVE, GATE: VALVE SIZE: 168.3 X 10 MM; TYPE: DISC; DESIGN PRESSURE: 40 BAR; DESIGN TEMPERATURE: 447 DEG C; CONNECTION: BW; FACE TO FACE LENGTH: 350 MM; BODY MATERIAL: GS-17CRMO55; TRIM: STELLITE 6 SEAT; WEDGE 13CR; OPERATED: HANDWHEEL; APPLICATION: SOOTB
210	666656	SPINDLE: TYPE: CONTROL VALVE; DIAMETER: 45 MM; LENGTH: 930 MM; MATERIAL: X35CRMO17; SPECIFICATION: NB13S0001/002; THREAD PITCH: 10 LEFT HAND MM; FURNISHED ITEMS: SPINDLE NUT AND FEATHER; DRAWING NO: 0.46009E REV 0; PED MODULE G; MATERIAL CERTIFICATE REQUIRED ON EVERY DELIVERY; A LETTER CONFIRMING THE ITEM
211	670594	VALVE, GATE: VALVE SIZE: 168.3 X 10 MM; TYPE: DISC; DESIGN PRESSURE: 40 BAR; DESIGN TEMPERATURE: 447 DEG C; CONNECTION: BW; FACE TO FACE LENGTH: 350 MM; BODY MATERIAL: GS-17CRMO55; TRIM: STELLITE 6 SEAT; WEDGE 13CR; OPERATED: HANDWHEEL; APPLICATION: SOOTBLOWER REHEAT HAND ISOLATING VALVE; SPECIFICATION: DN150; GRADE: DIN 1.7357; DESIGN RATING: PN63; REFERENCE NO: GA100.10.063.150.S; NV01S101 AND NV01S001; MATERIAL CERTIFICATES AND SIGNED OEM LETTER
212	45067	PUMP, ROTARY: TYPE: GEAR; PEERLESS TYPE 20SR04F, FOR USE WITH PRIMARY AIR; INDUCTION DRAUGHT; FORCED DRAUGHT FANS
213	44589	PUMP, ROTARY: TYPE: JACKING OIL; PORT SIZE: 40 MM; SPEED: 940 RPM; RATING: 6000 PSI; DRIVER: MOTOR; REFERENCE NO: FV502141; FOR FD AND ID FANS
214	51050	INJECTOR: TYPE: JACKING OIL; SIZE: OD 17 X LG 210 MM; MATERIAL: STEEL; APPLICATION: ID/FD FAN BEARINGS; DRAWING NO: C3.816.005081 REV 0; JACKING OIL INJECTOR, FOR USE ON AIRTEC HOWDEN FORCED DRAUGHT AND INDUCED DRAUGHT FAN BEARINGS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
215	54985	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 80 MM; MATERIAL: STL; LENGTH: 6 M; WALL THICKNESS: 4.8 MM; CONSTRUCTION: WELDED; END TYPE: SOCKET X THD; SPECIFICATION: BS 1387; SEAMLESS STEAM, TO THE LATEST EDITION OF SABS 62 AND BEARING THE MARK OF APPROVAL
216	17177	CHANNEL, STRUCTURAL: WIDTH: 50 MM; LENGTH: 6 M; HEIGHT: 100 MM; MATERIAL: MS; PROCESS: HOT ROLLED; GRADE: EN43A; WEIGHT: 10.5 KG/M; SPECIFICATION: BS 4360
217	217225	BEARING, FLANGE BLOCK: ROLLING ELEMENT: BALL; INSIDE DIAMETER: 45 MM; SHAPE: SQ; BLOCK SIZE: SQ 137 X THK 10 MM; BOLT MOUNTING: 4; BOLT DIAMETER: M14; HOUSING MATERIAL: CI; SUPPL P/N: UCF209; DUTY LIGHT
218	34840	BEARING, FLANGE BLOCK: INSIDE DIAMETER: 75 MM; SHAPE: SQ; BLOCK SIZE: LG 200 X THK 80 MM; BOLT MOUNTING: 4; BOLT DIAMETER: M19; HOUSING MATERIAL: CI; SUPPL P/N: FY75; REFERENCE NO: UCF215; SPHERICAL

219	N/A	UPS Spare description (CODE:6FSHT30K04): Fan - 119x119x38 220v, Part no:2526004
220	N/A	UPS Spare description (CODE:6FSHT30K04): Display card HPS, Part no:6R_APTB0626C01A
221	N/A	UPS Spare description (CODE:6FSHT30K04): RIC SY CONTR INV 30kVA 220Vd, Part no:6RICAERH008I03A
222	N/A	UPS Spare description (CODE:6FSHT30K04): Power Supply Card - NF12177-SE12200, Part no:6RICSKRH007A
223	N/A	UPS Spare description (CODE:6FSHT30K04):RIC HPS SISTEMA 30kVA 220VDC, Part no:6R_APTB2196A04A
224	N/A	UPS Spare description (CODE:6FSHT30K04):3ph Interface Card - NF12243-SE12197, Part no:6RICSKRH011A
225	N/A	UPS Spare description (CODE:6FSHT30K04):By Pass SCR 3ph Card - NF12345, Part no:6RICSKRH017B
226	N/A	UPS Spare description (CODE:6FSHT30K04):RIC SK CONTR RADDR MAST 220Vdc, Part no:6R_AATB2742C03A
227	N/A	UPS Spare description (CODE:6FSHT30K04):Slave Converter Control Card 12p, Part no:6R_AATB2742C02C
228	N/A	UPS Spare description (CODE:6FSHT30K04):Fuse - 120A FF 660V 120FEE ceramic, Part no:2512910
229	N/A	UPS Spare description (CODE:6FSHT30K04):FUSE 80A FF 240V LET CERAMIC, Part no:2512966
230	N/A	UPS Spare description (CODE:6FSHT30K04):Fuse - 32A GG 400V 10x38 Ceram, Part no:2512952
231	N/A	UPS Spare description (CODE:6FSHT30K04):Fuse - 160A GG 500V NHO, Part no:02512964A
232	N/A	Charger Spares description: Power Supply Card (Siemens Charger - D220/200), COMPONENT MATERIAL SPECIFICATION: C53080-Y0100- L000-A1
233	N/A	Charger Spares description: Thyristor Control Card ((Siemens Charger - D220/200)), COMPONENT MATERIAL SPECIFICATION:G53080- Y0101-L000-A1
234	N/A	Charger Spares description: Alarm Card (Siemens Charger - D220/200), COMPONENT MATERIAL SPECIFICATION:G53080-Y0102-L000- B1
235	N/A	Charger Spares description:Thyristor Control Card (Siemens Charger - D24/1600), COMPONENT MATERIAL SPECIFICATION:G53080- Y0101-M034-A1
236	N/A	Charger Spares description:Alarm Card (Siemens Charger - D24/1600, COMPONENT MATERIAL SPECIFICATION:G53080-Y0102-L000-B1
237	N/A	Charger Spares description:RECTIFIER BRIDGE 1200V, G10B, COMPONENT MATERIAL SPECIFICATION:SKB 25/12,
238	N/A	Charger Spares description:FAST DIODE MODULES 800V; 105A , COMPONENT MATERIAL SPECIFICATION:SKMD 105F08,
239	N/A	Charger Spares description: EACH WITH 2 DIODES WITH COMMON CATHODE, VERSION 8-PAIR, FOR EACH CIRCUIT, EMG 90-DIO 16E/LP, COMPONENT MATERIAL SPECIFICATION:2954808,
240	N/A	Charger Spares description:EMG45-DIO 8E DIODEMODULE, WITH 8 DIODES INDIVIDUALLY WIRED, DIODE TYP 1N400, COMPONENT MATERIAL SPECIFICATION:2950103,
241	N/A	Charger Spares description: SWITCH GEAR LIGHTING 15W 230VAC, COMPONENT MATERIAL SPECIFICATION:8MF4900

242	N/A	Charger Spares description: ACCESSORIES KL 025 APERTURE 1, COMPONENT MATERIAL SPECIFICATION:8MF4908
243	N/A	Charger Spares description:AUXILIARY SWITCH MOUNT. 2NC, F. LS-SWITCH T=70MM 1, COMPONENT MATERIAL SPECIFICATION:5ST3012
244	N/A	Charger Spares description: HANDLE CONNECTOR FOR FI/LS-PROTECTORS D=70 MM F., MOUNTING ADDITIONAL COMPON. (1 SET = 5 PIECES IN POLY-BAG), COMPONENT MATERIAL SPECIFICATION:5ST3805-1
245	N/A	Charger Spares description: FI/LS-PROTECTOR TYPE A (PSE/SSF),,D=70MM IFN 30MA,6KA, 1+N-POLEC, IN=10A, B, COMPONENT MATERIAL SPECIFICATION:5SU1356-6KK10
246	N/A	Charger Spares description:LV HRC ISOLATING LINK,SIZE 1 INSULATED GRIPPING LUG 1, COMPONENT MATERIAL SPECIFICATION:3NG1202
247	N/A	Charger Spares description:FUSE-SWITCH-DISCONNECTOR FOR SURFACE MOUNT. AND INST,SIZE1, 250 A, HANDLE UNIT GRAY, FLAT PAD CONNECTION M10, FUSE SIZE NH1, COMPONENT MATERIAL SPECIFICATION:3NP4270-0CA01,
248	N/A	Charger Spares description:ACCESSORIES FOR FUSE SWITCH DISCONNECTORS 3NP35/3NP4.7 AND 3NP401, AUXILIARY SWITCH 1CO WITH SCREWS (INSTALLATION SET), COMPONENT MATERIAL SPECIFICATION:3NY3035,
249	N/A	Charger Spares description:8A, CIRCUIT BREAKER CURR. SENS DC 440V AC 400V 10KA, 2-POLE, C, 8A, COMPONENT MATERIAL SPECIFICATION:5SY5208-7
250	N/A	Charger Spares description:4A "B", CIRCUIT BREAKER 230/400V 6KA, 1-POLE, B, 4A, D=70MM 1, COMPONENT MATERIAL SPECIFICATION:5SY6104-6
251	N/A	Charger Spares description:6A, AUXILIARY SWITCH MOUNT. 2S, F. LS-SWITCH T=70MM, COMPONENT MATERIAL SPECIFICATION:5ST3011
252	N/A	Charger Spares description:6A, CIRCUIT BREAKER 230V 6KA,1+N-POLE B, 6A, D=70MM, COMPONENT MATERIAL SPECIFICATION:5SY6506-6
253	N/A	Gen Protection IED, Make: Siemens, Type: Siprotec 5, Part no: 7UM6221-5EB92-3CB0-L0S
254	N/A	Gen Trfr Protection IED, Make: Siemens, Type: Siprotec 5, Part no: 7UT6351-5EB92-2BA3-L0S
255	N/A	Unit Trfr Protection IED, Make: Siemens, Type: Siprotec 5, Part no: 7UT6331-5EB92-2BC3-L0S
256	N/A	Synchronising IED, Make: Siemens, Type: Siprotec 5, Part no: 7VE6320-5EB92-0CA0-L0S
257	N/A	Bay Controler IED, Make: Siemens, Type: Siprotec 5, Part no: 6MD6641-5EB90-0AF0-L0S
258	N/A	Voltage Regulation IED, Make: Aberle, Type: RegDA, Part no: REG-DA/B0/H0/F1/M1/S1/T0/K1/E00/D0/C00/XW96/G2/A2
259	N/A	Voltage Regulation IED, Make: Aberle, Type: RegDA, Part no: REG-DA/B0/I0/H0/F1/M1/S1/T0/K1/E00/D0/C00/R1/XW96/L0/A2
260	N/A	Gen Protection Relay: Ethernet Switch, Make: Ruggedcom, Part no: RSG2100NC-F-RM-HI-HI-TX01-TX01-FX01-FX01-FG02-1FG02-FX01-
261	N/A	Gen Protection Bays: Simantic 19" Touch Screen PC, Make: Siemens, Part no: 6VA7875-0BE51-1AC0

262	N/A	Gen Protection Relay: Simantic 19" Rack PC, Make: Siemens, Part no: 6ES7643-8KP44-2BX0
263	N/A	Gen ProtectionRelay: Test Blocks, Make: Reyrolle, Type: 2RMLG 02, Part no: 7XG2220-2AA00-0AA0, 2RMLG 02; Article number 2993H10063
264	N/A	20Hz Generator: Make: Siemens, Part no: 7XT3300-0CA00
265	N/A	20Hz Band-pass Filter: Make: Siemens, Part no:7XT3400-0CA00
266	N/A	Injection Unit for Rotor Ground Fault Protection: Make: Siemens, Part no: 7XT7100-0EA00/DD, 60V TO 250V 45Hz to 65Hz
267	N/A	Rotor E/F Resistor Box: Make: Siemens, Part no: 7XR6004-0CA00/BB
268	N/A	Annunciation Relays: Make: Siemens, Part no: 7TS1642-0AA0-1, 220V DC - With Socket 7XP9010-2 (Flush mounting)
269	N/A	Monostable Fast-Acting Relay: Make: Siemens, Part no: 7PA2642-1AA00-0, Fast Acting - 220V DC -8 Change Over Contacts - Without Socket
270	N/A	Monostable Fast-Acting Relay: Make: Siemens, Part no: 7PA2742-0AA00-0, Fast Acting - 220V DC -4 Change Over Contacts - Without Socket
271	N/A	Single Phase Trip Circuit Supervision: Make: Siemens, Part no: 7PA3042-1AA00-0, 220V DC - Without Socket
272	N/A	Auxiliary : Make: Mors Smitt, Type: G08-D220, Part no: 321000011, 8 Pin - 220V Coil - 2 Change Over Contacts - (PPD)
273	N/A	Auxiliary Relays: Make: Mors Smitt, Type: G08-D024, Part no: 321000002, 8 Pin - 24V Coil - 2 Change Over Contacts - (UCR Controls)
274	N/A	Auxiliary Relays: Make: Mors Smitt, Type: G08-D048, Part no: 321000003, 8 Pin - 48V Coil - 2 Change Over Contacts - (EOD Controls)
275	N/A	Auxiliary Relays: Make: Mors Smitt, Type: G11-D024, Part no: 321000102, 8 Pin - 24V Coil - 3 Change Over Contacts - (UCR Controls)
276	N/A	Auxiliary Relays: Make: Mors Smitt, Type: G11-D048, Part no: 321000103, 8 Pin - 48V Coil - 3 Change Over Contacts - (EOD Controls)
277	N/A	Auxiliary Relays: Make: Mors Smitt, Type: D-B, Part no: D-R4 220-230V 50Hz, D Series B 220V AC Coil (TCIP)
278	N/A	Latching Relay: Make: Mors Smitt, Type: KDN, Part no: KDN 220 VDC, Latching - 220V DC Coil - 8 Change Over Contacts - (Brkr Flip Flop)
279	N/A	Ring Current Transformer: Make: Current Electric, 2x (CTR:4000/1, Class 5P20; 10VA BIL 0.66kV, 50Hz - External Mounting)
280	N/A	Ring Current Transformer: Make: Current Electric, 2x (CTR:2000/1, Class 5P20; 10VA BIL 0.66kV, 50Hz - External Mounting)

281	N/A	Ring Current Transformer: Make: Current Electric, 2x (CTR:2400/1, Class 5P20; 10VA BIL 0.66kV, 50Hz - External Mounting)
282	N/A	Bar CT: Make: Current Electric, 2x (CTR:200/1, Class PX; KPV 50; IM(A) 0.100; BIL 0.66kV, 50/60Hz - Internal Mounting)
283	N/A	Aux CT: Make: Current Electric, CTR: 1/1; BIL 0.66kV, 50/60Hz - Internal Mounting)
284	N/A	RECTIFIER BRIDGE 1200V, G10B, Make: SEMIKRON, Part No: SKB 25/12,
285	N/A	FAST DIODE MODULES 800V; 105A 1, Make: SEMIKRON, Part No: SKMD 105F08,
286	N/A	EACH WITH 2 DIODES WITH COMMON CATHODE, VERSION 8-PAIR, FOR EACH CIRCUIT, EMG 90-DIO 16E/LP, Make: PHOENIX CONTACT, Part No: 2954808,
287	N/A	EMG45-DIO 8E DIODEMODULE, WITH 8 DIODES INDIVIDUALLY WIRED, DIODE TYP 1N4007, Make: PHOENIX CONTACT, Part No: 2950103,
288	N/A	SWITCH GEAR LIGHTING 15W 230VAC , Make: SIEMENS AG, Part No: 8MF4900
289	N/A	ACCESSORIES KL 025 APERTURE 1, Make: SIEMENS AG, Part No: 8MF4908
290	N/A	AUXILIARY SWITCH MOUNT. 2NC, F. LS-SWITCH T=70MM 1, Make: SIEMENS AG, Part No: 5ST3012
291	N/A	HANDLE CONNECTOR FOR FI/LS-PROTECTORS D=70 MM F., MOUNTING ADDITIONAL COMPON. (1 SET = 5 PIECES IN POLY-BAG), Make: SIEMENS AG, Part No: 5ST3805-1
292	N/A	FI/LS-PROTECTOR TYPE A (PSE/SSF),,D=70MM IFN 30MA,6KA, 1+N-POLEC, IN=10A, B, Make: SIEMENS AG, Part No: 5SU1356-6KK10
293	N/A	LV HRC ISOLATING LINK,SIZE 1 INSULATED GRIPPING LUG 1, Make: SIEMENS AG, Part No: 3NG1202
294	N/A	FUSE-SWITCH-DISCONNECTOR FOR SURFACE MOUNT. AND INST,SIZE1, 250 A, HANDLE UNIT GRAY, FLAT PAD CONNECTION M10, FUSE SIZE NH1, Make: SIEMENS AG, Part No: 3NP4270-0CA01,
295	N/A	ACCESSORIES FOR FUSE SWITCH DISCONNECTORS 3NP35/3NP4.7 AND 3NP401, AUXILIARY SWITCH 1CO WITH SCREWS (INSTALLATION SET), Make: SIEMENS AG, Part No: 3NY3035,
296	N/A	8A, CIRCUIT BREAKER CURR. SENS DC 440V AC 400V 10KA, 2-POLE, C, 8A, Make: SIEMENS AG, Part No: 5SY5208-7
297	N/A	4A "B", CIRCUIT BREAKER 230/400V 6KA, 1-POLE, B, 4A, D=70MM 1, Make: SIEMENS AG, Part No: 5SY6104-6
298	N/A	6A, AUXILIARY SWITCH MOUNT. 2S, F. LS-SWITCH T=70MM, Make: SIEMENS AG, Part No: 5ST3011
299	N/A	6A, CIRCUIT BREAKER 230V 6KA,1+N-POLE B, 6A, D=70MM, Make: SIEMENS AG, Part No: 5SY6506-6
300	0140069	MOTOR ELEC:1.1 KW;1410 RPM;B5;4.85-2.8 A
301	0140072	MOTOR ELEC:0.18 KW;1320 RPM;C63B;220/380
302	0140073	MOTOR ELEC:0.25 KW;1345 RPM;1.35-0.78 A

303	0140077	MOTOR ELEC:3 KW;1420 RPM;100L;6.4 A;400
304	0140079	MOTOR ELEC:3 KW;2895 RPM;IMB5;6.4 A;380
305	0140081	MOTOR ELEC:4 KW;1435-1440 RPM;DNV112MD;F
306	0140103	MOTOR ELEC:2.2 KW;1415 RPM;9-5.2 A
307	0140190	MOTOR ELEC:0.06 KW;1320 RPM;0.38-0.22 A
308	0140452	MOTOR GEARD:0.55 KW;1.5 A;184 RPM;380;3
309	0180752	MOTOR ELEC:0.37 KW;1375 RPM;71MD;1.94 A
310	0180753	MOTOR BRK:0.12 KW;1325 RPM;IMB14;220-380
311	0182390	MOTOR ELEC:0.25 KW;1335 RPM;0.83 A;415 V
312	0214303	MOTOR ELEC:2.2 KW;1415 RPM;100L;4.8 A;4
313	0222942	MOTOR ELEC:1.1 KW;1380 RPM;90-4;2.8 A;F
314	0223631	MOTOR ELEC:5.5 KW;2860 RPM;DZ1325;11.6 A
315	0239494	MOTOR ELEC:1.5 KW;2855 RPM;D90LD;4 A;380
316	0244634	MOTOR ELEC:2.2 KW;920 RPM;DX112MD;5.5 A
317	0244643	MOTOR ELEC:1.5 KW;1260 RPM;LQ3096;4.1 A
318	0528256	MOTOR ELEC:4 KW;940 RPM;DX132MD;10.3 A;3
319	0566240	MOTOR ELEC:0.37 KW;1370 RPM;1.05 A;380 V
320	221473	MOTOR ELEC:7.5 KW;965 RPM;DX160DM;18.5 A
321	222945	MOTOR ELEC:15 KW;2940 RPM;D160MBH;29 A;B5
322	182394	MOTOR ELEC:18.5 KW;2900 RPM;DX160L;35.7
323	222944	MOTOR ELEC:22 KW;2910 RPM;DX180M;42 A;2

324	0017142	PLATE, METAL: DIMENSIONS: WD 1.2 M X LG 2.5 M X THK 8 MM; MATERIAL: MS BS 4360, SABS 1431; WEIGHT: 188.4 KG; PROCESS: HOT ROLLED; GRADE: 300WA EN43A
325	0036222	DONE ACCORDING TO THE STANDARD FOR WELDING REQUIREMENTS ON ESKOM PLANT; 240-106628253THE LENGTH OF THE CONVOLUTIONS; LINER MATERIAL; CARBON STEEL; SEE ATTACHED DRAWING NO FOR THE BELOW; ALL THE MANUFACTURING SHALL BEEXPANSION: 8MM; PIPE MATERIAL: ASTM A106 GR B ACCORDING TO EN 10204 3.1; 2 X INSTALLED LINERS 1.6MM THK AND 380MM LENGTH TO COVERSIZE: 400NB SCH:40; FACE TO FACE: 1040MM; DESIGN TEMPERATURE 210 DEG C; DESIGN PRESSURE 1.8 MPA; LATERAL EXPANSION: 25MM; AXIALCOMPENSATOR: TYPE: DOUBLE EXPANSION BELLOW; APPLICATION: BOILER BDV; SUPPL P/N: 0.61/96312; DRAWING NO: NO:0.61/96312 REV 0; PIPE
326	0051088	BE STAMPED EVERY 500 MM AND VERIFIED BY THIRD PARTY STAMP, COLOUR CODED, END CAPS TO BE FITTEDPREPED, 5 MM WALL THICKNESS, CENTRE TO CENTRE SIZE 127 MM, LENGTH OF LEGS 200 MM; TEST CERTIFICATES TO BE SUPPLIED, ALL TUBING TOBEND, PIPE: MATERIAL: 15M03 HOT DRAWN; DEGREE: 180 DEG; GRADE: 3; SPECIFICATION: DIN 50049 TYPE 3.1A; 3.1C; TYPE ECONOMISER, TO BE

327	0056215	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 51 MM; WALL THICKNESS: 3.6 MM; MATERIAL: STL ALLOY X20CRMOV121; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN FLAT SQ CUT; TYPE: FLOW 129, 130; GRADE: 3; SPECIFICATION: DIN 50049; EN 10216-2; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO DIN 50049 TYPE 3.1.A OR 3.1.C, ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH OF THE TUBE END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EACH TUBE, COLOUR CODE BLUE, EN3.2 DOCUMENT CERTIFICATE ACCORDING TO EN10204
328	0056215	TUBE, BOILER STRAIGHT: NOMINAL SIZE: 51 MM; WALL THICKNESS: 3.6 MM; MATERIAL: STL ALLOY X20CRMOV121; LENGTH: 6 M; STRUCTURE: SMLS; ENDS: PLAIN FLAT SQ CUT; TYPE: FLOW 129, 130; GRADE: 3; SPECIFICATION: DIN 50049; EN 10216-2; TEST CERTIFICATES TO BE SUPPLIED ACCORDING TO DIN 50049 TYPE 3.1.A OR 3.1.C, ALL TUBING TO BE STAMPED, EVERY 500MM AND VERIFIED BY THIRD PARTY STAMP, AND COLOUR CODED ALONG THE WHOLE LENGTH OF THE TUBE END CAPS TO BE FITTED, HEAT NUMBERS MUST BE PRESENT ON EACH TUBE, COLOUR CODE BLUE, EN3.2 DOCUMENT CERTIFICATE ACCORDING TO EN10204
329	0598318	AIA WILL NOT BE ACCEPTED WITHOUT THE MATERIAL CERTIFICATES AND THE SPECTROMETER TEST CERTIFICATE SIGNED AND VERIFIED BY POWER STATION INCLUDING THE SPECTROMETER TEST RESULTS SIGNED BY POWER STATION AIA UPON DELIVERY BEFORE ACCEPTANCE OF THE MATERIAL; NOTE MATERIALS SPECTROMETER RESULTS MUST CORRESPOND WITH THE MATERIAL CERTIFICATE; ALL THE DOCUMENTATION WILL BE EVALUATED BY ENGINEERING WILL BE PRESENT TO REVIEW AND VERIFIED THE SPECTROMETER RESULTS. MATERIAL NOT MEETING THE REQUIREMENTS WILL BE REJECTED; THE (SPECTROMETER TEST) ON EACH BATCH OF MATERIAL AT THE SUPPLIER'S PREMISES PRIOR DELIVERY TO THE POWER STATION; THE POWER STATION AIA THE GENERATION DIVISION 240-87733094 LATEST REVISION); MATERIAL CERTIFICATION TO EN10204/3.2; CONDUCT A MATERIAL ANALYSIS SUPPLIER WILL COMPLY TO THE FOLLOWING STANDARD (SEE PROCUREMENT OF HIGH PRESSURE PIPEWORK AND BOILER TUBING MATERIAL STANDARD IN DELIVER AS PER SPEC UNIQUE IDENTIFIER: 474-10206 REV 2; EN10204 3.2; ADHERE TO ESKOM GOODS INFORMATION REQUIREMENTS AND THE TUBE, BOILER STRAIGHT: NOMINAL SIZE: 38 MM; WALL THICKNESS: 4 MM; MATERIAL: X20CRMOV11-1; LENGTH: 6-11.8 M; STRUCTURE: SMLS;
330	0644556	SHIELD, HEAT PROTECTIVE: TYPE: INSERT; DIMENSIONS: ID 51 MM X OD 57 MM X LG 3.6 M X THK 3 MM; MATERIAL: SS GR 310; MOUNT: BANGLES X6; APPLICATION: BOILER R/HTR 1; DRAWING NO: TUT-PP-GEN-001 REV 0; TUBE REPLACEMENT; TO BE MANUFACTURED ACCORDING TO THE DRAWING NOT SUPPLIED; 6 BANGLES NEED TO BE SUPPLIED ON EVERY SHIELD ON DELIVERY; MUST BE CERTIFIED ACCORDING TO EN3.1; DOCUMENTATION AND CERTIFICATES OF EN10204 MUST BE SUPPLIED WITH DELIVERY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).

331	0665724	REQUIRED ON EVERY DELIVERY 325A; BASIC SHAPE STYLE: RECT; SPECIFICATION: EN1024; STRAND WIDTH: 6 MM; STRAND THICKNESS: 4.5 MM; MATERIAL CERTIFICATE 3.1 METAL, EXPANDED: SIZE: WD 1.2 X LG 2.4 M; SHORTWAY: 27 MM; LONGWAY: 60 MM; MATERIAL: SS 304; FABRICATION METHOD: MENTEX 70/ VEM
332	0665726	SHIELD, TUBE: DIMENSIONS: DIA 50.5MM X LG 2.45M; STYLE: BEND; MATERIAL: SS GR310; DRAWING NO: TUT-PP-GEN-122 REV 0; 0.61-02133 REV2 REV 0; PROTECTION LHS SHIELD: ID 44.5MM X WALL THICKNESS 3MM; VENDOR TO CONFIRM LATEST REVISION DRAWING BEFORE COMMENCING WITH MANUFACTURING; PROTECTING SHIELD TO COVER 180DEG AND THE BANGLE 180DEG RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE; BANGLES AND THE PROTECTION SHIELDS TO BE INCLUDED IN THE DELIVERY; AND BE CHARGED; BUT SUPPLIED AS SEPARATE ITEMS; QCP FOR PRESSING TO BE APPROVED BY ESKOM BEFORE COMMENCING WITH ANY MANIPULATION; PROCURING OF HP PIPEWORK SHOULD BE IN LINE WITH ESKOM STANDARD: 204-87733094; MATERIAL: SS 310; DIMENSIONS: OD 50.5 X WT 3MM; EACH BANGLE AND SHIELD SHOULD BE HARD STAMPED; HEAT NUMBER WITH LOW STRESS STAMPS; MATERIAL CERTIFICATE 3.1 I.A.W REQUIRED ON EVERY DELIVERY; STANDARD EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
333	0665727	PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE). CERTIFICATE 3.1 I.A.W REQUIRED ON EVERY DELIVERY; STANDARD EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE 310; DIMENSIONS: OD 44 X WT 3MM; EACH BANGLE AND SHIELD SHOULD BE HARD STAMPED; HEAT NUMBER WITH LOW STRESS STAMPS; MATERIAL BEFORE COMMENCING WITH ANY MANIPULATION; PROCURING OF HP PIPEWORK SHOULD BE IN LINE WITH ESKOM STANDARD: 204-87733094; MATERIAL: SS SHIELD, TUBE: DIMENSIONS: DIA 45MM X LG 2.45M; STYLE: STRAIGHT; MATERIAL: SS GR310; DRAWING NO: 67.SH2.SD.08.11 REV 0; PROTECTION SHIELD: ID 38MM X WALL THICKNESS 3MM; VENDOR TO CONFIRM LATEST REVISION DRAWING BEFORE COMMENCING WITH MANUFACTURING; PROTECTING SHIELDS TO BE INCLUDED IN THE DELIVERY; AND BE CHARGED; BUT SUPPLIED AS SEPARATE ITEMS; QCP FOR PRESSING TO BE APPROVED BY ESKOM SHIELD TO COVER 180DEG AND THE BANGLE 180DEG RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE; BANGLES AND THE PROTECTION
334	0665728	WT 3MM; EACH BANGLE AND SHIELD SHOULD BE HARD STAMPED; HEAT NUMBER WITH LOW STRESS STAMPS; MATERIAL CERTIFICATE 3.1 I.A.W REQUIRED MANIPULATION; PROCURING OF HP PIPEWORK SHOULD BE IN LINE WITH ESKOM STANDARD: 204-87733094; MATERIAL: SS 310; DIMENSIONS: OD 50.5 X ON EVERY DELIVERY; STANDARD EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE). DELIVERY; AND BE CHARGED; BUT SUPPLIED AS SEPARATE ITEMS; QCP FOR PRESSING TO BE APPROVED BY ESKOM BEFORE COMMENCING WITH ANY BANGLE 180DEG RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE; BANGLES AND THE PROTECTION SHIELDS TO BE INCLUDED IN THE OFFSET; VENDOR TO CONFIRM LATEST REVISION DRAWING BEFORE COMMENCING WITH MANUFACTURING; PROTECTING

		SHIELD TO COVER 180DEG AND THE 60. ST. SDBIF3PB.10.11 REV 0; TUT-PP-GEN-119 REV 0; 60. ST. SDBIF3PB.08.11 REV 0; PROTECTION SHIELD: ID 44.5MM X WALL THICKNESS 3MM; RH SHIELD, TUBE: DIMENSIONS: DIA 50.5MM X LG 2.45M; STYLE: BIFURCATION; MATERIAL: SS GR310; DRAWING NO: TUT-PP-GEN-118 REV 0;
335	0665729	PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE). MATERIAL CERTIFICATE 3.1 I.A.W REQUIRED ON EVERY DELIVERY; STANDARD EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE MATERIAL: SS 310; DIMENSIONS: OD 57 X WT 3MM; EACH BANGLE AND SHIELD SHOULD BE HARD STAMPED; HEAT NUMBER WITH LOW STRESS STAMPS; BY ESKOM BEFORE COMMENCING WITH ANY MANIPULATION; PROCURING OF HP PIPEWORK SHOULD BE IN LINE WITH ESKOM STANDARD: 204-87733094; PROTECTION SHIELDS TO BE INCLUDED IN THE DELIVERY; AND BE CHARGED; BUT SUPPLIED AS SEPARATE ITEMS; QCP FOR PRESSING TO BE APPROVED PROTECTING SHIELD TO COVER 180DEG AND THE BANGLE 180DEG RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE; BANGLES AND THE SHIELD: ID 51MM X WALL THICKNESS 3MM; RH OFFSET; VENDOR TO CONFIRM LATEST REVISION DRAWING BEFORE COMMENCING WITH MANUFACTURING; SHIELD, TUBE: DIMENSIONS: DIA 57MM X LG 2.45M; STYLE: STRAIGHT; MATERIAL: SS GR310; DRAWING NO: 67. RH2. SD.08.11 REV 0; PROTECTION
336	0665730	SHIELD, TUBE: DIMENSIONS: DIA 54.3MM X LG 2.45M; STYLE: STRAIGHT; MATERIAL: SS GR310; DRAWING NO: 71. RH1. SD48.08.11 REV 0; PROTECTION SHIELD: ID 48.3MM X WALL THICKNESS 3MM; RH OFFSET; VENDOR TO CONFIRM LATEST REVISION DRAWING BEFORE COMMENCING WITH MANUFACTURING; PROTECTING SHIELD TO COVER 180DEG AND THE BANGLE 180DEG RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE; BANGLES AND THE PROTECTION SHIELDS TO BE INCLUDED IN THE DELIVERY; AND BE CHARGED; BUT SUPPLIED AS SEPARATE ITEMS; QCP FOR PRESSING TO BE APPROVED BY ESKOM BEFORE COMMENCING WITH ANY MANIPULATION; PROCURING OF HP PIPEWORK SHOULD BE IN LINE WITH ESKOM STANDARD: 204-87733094; MATERIAL: SS 310; DIMENSIONS: OD 52 X WT 3MM; EACH BANGLE AND SHIELD SHOULD BE HARD STAMPED; HEAT NUMBER WITH LOW STRESS STAMPS; MATERIAL CERTIFICATE 3.1 I.A.W REQUIRED ON EVERY DELIVERY; STANDARD EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
337	0665731	APPLICABLE). EN1024 3.1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF SHOULD BE HARD STAMPED; HEAT NUMBER WITH LOW STRESS STAMPS; MATERIAL CERTIFICATE 3.1 I.A.W REQUIRED ON EVERY DELIVERY; STANDARD BE APPROVED BY ESKOM BEFORE COMMENCING WITH ANY MANIPULATION; MATERIAL: SS 310; DIMENSIONS: OD 44 X WT 3MM; EACH BANGLE AND SHIELD COVER 180DEG AND THE BANGLE 180DEG + 10 DEG BOTH SIDES; RADIUS TO FIT TIGHT AROUND THE APPLICABLE BOILER TUBE; QCP FOR PRESSING TO SHIELD, TUBE: DIMENSIONS: DIA 44MM X LG 2.45M; STYLE: BEND; MATERIAL: SS GR310; PROTECTION SHIELD BANGLE; PROTECTING SHIELD TO

338	0665745	SPACER: TYPE: PLATTEN SLIP; DIMENSIONS: DIA 20 MM; MATERIAL: INCOLOY 800; APPLICATION: SUPERHEATER 1 PLATTEN ELEMENT SET; SPECIFICATION: EN10204; SPECIAL FEATURES: GUIDE BLOCK; SPACER AND STOPPER BLOCK; DRAWING NO: TUT-PP-SLP-001 REV 0; SUPPLY MATERIAL AND MACHINE AS PER DRAWING; INSIDE MACHINING; NO SHARP CORNERS; RADIUS CUTTING REQUIRED; MATERIAL CERTIFICATE 3.1 (10) IS REQUIRED ON EVERY DELIVERY; IF PWHT IS REQUIRED; PROCEDURE TO BE APPROVED BY ESKOM AND AIA BEFORE COMMENCING MANUFACTURING
339	0665748	BRACKET: TYPE: ALIGNMENT; MATERIAL: INCOLOY 800; DIMENSIONS: DIA 20 X LG 940 MM; APPLICATION: SUPERHEATER 2 SUPPORT; RADIUS: 27.5; CONSIST OF ROD AND HOOK; MATERIAL CERTIFICATE 3.1 IS REQUIRED ON EVERY DELIVERY; STAMPED; ESKOM WELDING STANDARD REQUIRED 240-106628253; WPS I.A.W EN ISO 15609-6 REQUIRED; QCP/ITP TO BE APPROVED BY ESKOM BEFORE WORK COMMENCE BENDING METHOD AND QCP TO BE APPROVED
340	0665749	APPROVED 240-106628253; WPS I.A.W EN ISO 15609-6 REQUIRED; QCP/ITP TO BE APPROVED BY ESKOM BEFORE WORK COMMENCE BENDING METHOD AND QCP TO BE CONSIST OF ROD AND HOOK; MATERIAL CERTIFICATE 3.1 IS REQUIRED ON EVERY DELIVERY; STAMPED; ESKOM WELDING STANDARD REQUIRED BRACKET: TYPE: ALIGNMENT; MATERIAL: INCOLOY 800; DIMENSIONS: DIA 20 X LG 70 MM; APPLICATION: REHEATER 2 SUPPORT; RADIUS: 22.5;
341	0665750	BRACKET: TYPE: RETAINING; MATERIAL: INCOLOY 800; DIMENSIONS: WD 30 X LG 69 X THK 6 MM; SPECIFICATION: EN10216-2; APPLICATION: REHEATER LUG SUPPORT; MATERIAL CERTIFICATE 3.1A IS REQUIRED ON EVERY DELIVERY; I.A.W STANDARD EN1024 3.1; HARD STAMPED WITH LOW STRESS STAMPS; HEAT NUMBERS
342	0665753	LUG: TYPE: CASTLE; DIMENSIONS: WD 40 X HT 25 MM; MATERIAL: INCOLOY 800; RADIUS 24 MM; WALL THICKNESS: 12 MM; SMALL CASTLE LUG WITH 40 MM BASE SUPERHEATER 3; MATERIAL CERTIFICATE EN10204 3.1 IS REQUIRED; STANDARD EN10216-2
343	0053155	JOINT, EXPANSION: SIZE: 270 MM; LENGTH: 19.8 M; CONNECTION: CLAMP; MATERIAL: EPDM; DESIGN RATING: -30 TO 40 MBAR AT 200 DEG C; DRAWING NO: 25 REV 1; DOUBLE PLY 6MM THK; ECONOMISER GAS OUTLET TO PRECIP
344	0089519	NUT, HEX: DIAMETER: M16; THREAD: 2 MM; NUT HEIGHT: 12.5 MM; MATERIAL: STAINLESS STEEL; GRADE: 316; SPECIFICATION: SABS 136; OEM P/N: 5160-250, OEM: GE STEAM POWER SERVICE
345	0205418	PENETRANT: CONTAINER: CAN AEROSOL 650 ML; SUPPL P/N: 814; FLUID
346	0210778	PACKING, BULK: WIDTH: 13 MM; THICKNESS: 13 MM; MATERIAL: GRAPHITE BRAIDED; SHAPE: SQ; SUPPL P/N: AES/S/P/350/13MM/2.5KG; TO BE BOXED, WRAPPED AND DUST SEALED TO PREVENT ANY DAMAGE
347	0217795	BEARING, FLANGE BLOCK: ROLLING ELEMENT: BALL; INSIDE DIAMETER: 25 MM; SHAPE: SQ; BLOCK SIZE: SQ 95 X THK 13 MM; BOLT MOUNTING: 4; BOLT DIAMETER: M12; HOUSING MATERIAL: CI; SUPPL P/N: F205; FOR USE ON DAMPERS, MUST HAVE GRUB SCREWS TO LOCK
348	0184361	SEAL: TYPE: BONNET; DIMENSIONS: ID 307 X OD 359 X THK 40 MM; MATERIAL: GRAPHITE SS REINFORCED; FINE FINISH, STAINLESS STEEL CUPS SQUARE, FOR STEAM USAGE

349	0054985	PIPE, METALLIC: NOMINAL PIPE SIZE DESIGNATION: 80 MM; MATERIAL: STL; LENGTH: 6 M; WALL THICKNESS: 4.8 MM; CONSTRUCTION: WELDED; ENDTYPE: SOCKET X THD; SPECIFICATION: BS 1387; SEAMLESS STEAM, TO THE LATEST EDITION OF SABS 62 AND BEARING THE MARK OF APPROVAL
350	0217685	CHAIN, CONVEYOR: PITCH: 140 MM; MATERIAL: STL; LENGTH: 2.84 M; SUPPL P/N: AKWC-95188-850; POWER TRANSMISSION
351	0124053	REVISION NUMBER (IF APPLICABLE).LOCATION, CONVEYORS AND ELEVATORS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWINGMOUNT: TYPE: END; DIMENSIONS: DIA 100 X LG 78 MM; MATERIAL: RUBBER; SUPPL P/N: UKXN-48109-150; BUFFER, BUHLER-MIAG FOR DRIVE UNITS
352	0097560	SEAL, MECHANICAL: TYPE: LABYRINTH; SHAFT DIAMETER: 148 MM; BODY MATERIAL: SS GR 316; APPLICATION: PUMP; SUPPL P/N: AKNS-84038-810;VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
353	0039413	CHAIN, CONVEYOR: TYPE: PRECIPITATOR HOPPPER; PITCH: 145 MM; WIDTH: 15 IN; MATERIAL: STL; LENGTH: 39.5 M; SUPPL P/N: RAK83179-85;REFERENCE NO: 142V-BT-1-50/12; POWER TRANSMISSION; TYPE 15 IN
354	0136189	BUSH, VALVE: TYPE: GUIDE; MATERIAL: STL; SUPPL P/N: EL016014; SIZE 26MM ID X 44MM OD X 48MM LG
355	0038756	GUIDE: TYPE: SEGMENT; APPLICATION: BUCKET ELEVATOR HEAD/BOOT SECTION; MANUF P/N: AKCG83537-81; VENDORS ARE RESPONSIBLE FOR ENSURINGTHAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
356	0037326	SEGMENT: TYPE: FRICTION WHEEL; MANUF P/N: AKCG82590-01; ITEM 138 AND 146 BUCKET ELEVATOR HEAD AND BOOT SECTION; VENDORS ARERESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).
357	0727955	GREASE: TYPE: HIGH TEMPERATURE; TEMPERATURE RATING: 0 UP TO ABOUT 350; CONTAINER: 7KG; TRADE NAME: MOLUB-ALLOY PASTE PL

2.1 Purchaser's design

Purchaser has no design. Data pack for all the various spares for outages to be supplied with delivery by the supplier.

Data Pack must consist of the following but not limited to:

- a) QCP documents
- b) Technical Data sheet
- c) Technical Drawings
- d) Material certificate
- e) Pressure Test certificate

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

Before the *Supplier* can deliver must ensure that it's the correct spares. The *Supplier* will still be liable to supply the correct spares that will precisely be applicable to the Mill plant standards.

2.3 Other requirements of the *Supplier's* design

As per *Purchaser's* specifications (Data pack as specified in section 2.1 of the works information)

2.4 Use of *Supplier's* design

Not Applicable

2.5 Manufacture & fabrication

Supplier will be required to provide data pack (as specified in section 2.1 of the works information) will then be the property of the *Purchaser*. As per *Purchaser's* specifications

2.6 Factory acceptance testing (FAT)

QC to be done with the end user after delivery. *Supplier* will be required to provide data Pack for all manufactured and assembled components where applicable.

2.7 Other tests and inspections and commissioning in place of use

The installation and commissioning will be done by the *Purchaser*.

2.8 Operating manuals and maintenance schedules

Supplier to provide operating and maintenance manuals.

3 Supply Requirements

- a) The supply of various spares for outages is on an as and when require basis.
- b) Requests for delivery will be made on a contract release order starting with a Order number
- c) All equipment / spares must be on time of required order date.
- d) Transported by road on supplier's costs and transport.
- e) End user to be informed when delivery will be done at least 2 days upfront.
- f) No deliveries to be done on a Weekend or public holiday except on an emergency basis indicated by the *Purchaser*.
- g) The *Supplier* must deliver the components between 08:30 to 15:30 Mondays to Thursdays and 8:30 to 11:30 on Fridays. No deliveries to be done on weekends unless prior arrangements done with the *Supplier*, *Purchaser* and stores.
- h) Pallets to convey the batch must be strong enough to carry and transport load at any time.
- i) Batches to be clearly marked and packed according to the required specifications.
- j) The stock number, quantity and material short description must be stated on the delivery note.
- k) Each delivery to be recorded on receiving register and each delivery note must have unique number.
- l) Supplier delivery note must indicate partial delivery if partial delivery is made.
- m) The stock number, quantity and material short description must be stated on the delivery note.

- n) *Contractor* on site must supply a SAPS clearance certificate to the *Employer* before contract start and every 12 months thereafter for all *Contractor's* employees to ensure continued access to site. This will also be handed in to security for *Contractor* to obtain access permits.

Acceptance of this tender is subject to the condition that both the contracting company's management and its employees will provide Eskom with a clear criminal record not older than thirty (30) days from a reputable screening company. If the principal *Contractor* appoints a subcontractor, the same provisions and measures will apply to the subcontractor. Acceptance of the tender is also subject to the condition that the *Contractor* will implement all such security measures for the safe performance of the work as required in the scope of the contract.

Contractors are to submit proof of verification record(s) (Security clearance) from SAPS or accredited supplier linked to SAPS AFIS system not older than thirty (30) days, as part of Risk Management process in order to curb any threats against the Installation. It is compulsory for these documents to be submitted to Security for verification before access to site is granted. Only individuals with clear criminal records will be considered.

Contractors are required to submit the SAPS Clearance Certificate obtained by the employee along with a copy of his/her Identity Document or Passport to the site Security Manager. The Security Manager is required to verify the authenticity of the CRC Certificate with SAPS and to cross reference the employee seeking access against known HR databases and site databases to determine if the employee in question has in the past participated in disruptive labor actions and if the individual was dismissed from Eskom and the reason for such dismissal. Every employee applying for access must be evaluated as an individual and subsequent finding recorded. A risk analysis of the employee profile indicating whether the employee is a risk to the installation must be completed. Any risk rating allocated above a level III will be deemed unsuitable.

The process shall be repeated every 12 months for low-risk employees (Risk Rating 5, 4) and every 6 months for medium to high-risk employees.

Packaging / Crating

- a) The *Supplier* shall be responsible for the packaging of all Spares delivered to Tutuka Power Station – Main Stores.
- b) All the spares supplied *shall* be individually wrapped or crated.

Delivery to Site

- a) The *Supplier* shall be responsible for the transportation of all Spares delivered to Tutuka Power Station – Main Stores.
- b) Ownership will only be transferred to the *Purchaser* upon payment.

4 Specification of the services to be provided.

- a) Access to site to be arranged before delivery date.
- b) No Delivery will be accepted without an official contract release order.
- c) Supplier delivery note must indicate partial delivery if partial delivery is made.
- d) The stock number, quantity and material short description must be stated on the delivery note.
- e) Each delivery to be recorded on receiving register and each delivery note must have unique number.
- f) Spares must be well packaged and safely transported.

5 Constraints on how the *Supplier* Provides the Goods

5.1 Programming constraints

- a) All equipment / spares must be on time of required order date.
- b) End user to be informed when delivery will be done at least 2 days upfront.
- c) Lead time to be negotiated upfront to ensure that end user will receive materials, spares / equipment in time. No adherence to Lead times.
- d) All vehicles to be roadworthy.
- e) The *Supplier* will be responsible for the safe transportation of all goods from the supplier's site to the Purchaser offloading point and liable for any damages or stolen goods.
- f) No gate pass or access arranged - *Supply Manager/* Supervisor to be informed when delivery will be done at least 2 days upfront.
- g) No driver available for off-loading - *Supply Manager/* Supervisor to be informed when delivery will be done at least 2 days upfront.
- h) Programme not submitted within agreed time.
- i) Late deliveries due to transportation or labour strikes
- j) Goods not packed correctly.

5.2 Work to be done by the Delivery Date

- a) All equipment / spares must be on time of required order date.
- b) Transported by road on supplier's costs and transport.
- c) The *Purchaser* to acknowledge receipt of goods by stamping and signing the delivery note of the *Supplier* upon delivery, rejected items to be communicated after the official quality inspection is done on site by the end user of the spares rejected must be collected and the correct supplied within 7. days

- d) Only spares specified will be accepted. Any spares that do not meet the specifications will be rejected.
- e) Acceptance, off-loading and QC.
- f) *Purchaser* arranges gate access for the *Supplier*.
- g) *Purchaser* arranges Induction for the *Supplier*
- h) Acceptance, off-loading by personnel at Main Stores and QC by Technical Team / End User
- i) Ensure that the delivered equipment is signed for.

5.3 Marking the goods

Batches to be clearly mark and packed according to the required specifications as follows:

- a) Name of *Supplier*
- b) Purchase order number
- c) Material number
- d) Serial / part number
- e) Quantity delivered.
- f) And each Component must have a unique identification linked to the relevant *Supplier*.
- g) Short description

The *Supplier* shall be responsible for the packaging of all Spares delivered to Tutuka Power Station – Main Stores.

5.4 Constraints at the delivery place and place of use

- a) *Supplier* to have the correct access to site approved.
- b) End user will determine the offloading point at time.
- c) Forklift / crane with driver will be supplied for offloading.
- d) Pallets to convey the batch must be strong enough to carry and transport load at any time.
- e) Supplier might not be the only supplier delivering on that day and has to wait for assistance.
- f) No gate pass or access arranged - *Supply Manager/* Supervisor to be informed when delivery will be done at least 2 days upfront and arrange access control permit at the gate.
- g) No driver available for off-loading - *Supply Manager/* Supervisor to be informed when delivery will be done at least 2 days upfront.

5.5 Cooperating with Others

Co-operation with others will be from time to time and on a as and when required basis on request by the *Purchaser*.

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

- a) The *Purchaser* will determine the offloading point at time.
- b) The *Purchaser* will provide resources to offload the spares being delivered (Forklift and cranes)
- c) The *Supplier* will offload small spares.
- d) *Purchaser* to ensure access to site for deliveries during normal hours.
- e) *Purchaser* to arrange induction.
- f) *Supplier* to provide proper transportation for spares.
- g) Forklift/ overhead crane with driver will be supplied by *Purchaser* for offloading.

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:
Risk registers and compensation events	TBC	Tutuka Power Station	<i>Supply Manager</i> and <i>Supplier</i>
Overall contract progress and feedback	TBC	Tutuka Power Station	<i>Supply Manager</i> and <i>Supplier</i>
Kick-off meeting	TBC	Tutuka Power Station	<i>Supply Manager</i> and <i>Supplier</i>

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 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.

Attendance of meetings as required by *Purchaser* Such as: -

- a) Any meeting requested by the *Purchaser* or *Supplier*

5.8 Documentation control

- a) Each instruction, certificate, submission, proposal, record, acceptance, notification, reply and other communication which this contract requires is communicated in a form which can be read, copied and recorded.
- b) Writing is in the Language of this contract.
- c) All reports to be discussed, compiled and handed in to the *Purchaser*.
- d) All communications must be printed and filed in the *Purchaser* file.

5.9 Health and safety risk management

The *Supplier* shall comply with the health and safety requirements contained in Annexure SHE Specification 14RISK SRM – 084 to this Service Information.

- a) All The *Purchaser's* health and safety procedures and regulations to be adhered to by the *Supplier*
- b) A SHEQ file to be handed in at the SHEQ department for approval prior to work commencement and kept up to date for the duration of the contract

SHEQ Policy

Eskom SHEQ Policy

The *Purchaser* has made a commitment to conduct business with respect and care for people, the environment and assets and that no operating condition or urgency of service justifies exposing anyone to negative risks arising from the *Purchaser* business.

Compliance with the *Purchaser's* SHEQ Policy and applicable regulations is the responsibility of every employee and *Supplier*

Supplier's SHEQ Policy

All *Contractors* shall have an OHS policy signed by the CEO of the *Supplier* and prominently displayed where employees normally report for duty.
Signed copy of the OHS policy shall form part of the SHEQ file.

SHE PLAN REQUIREMENTS:-

- a) Principal *Contractors* shall develop a suitable and sufficiently documented site specific SHE plans, based on the scope of work and client SHEQ specification.
- b) The SHE plans must be pre-approved by the client for implementation. The principal *Supplier/ Supplier* has a responsibility to send the SHE plans to the client for approval prior to commencement of work.
- c) The SHE plans must be applied from the commencement of and for the duration the construction work, which must be updated / reviewed as the work progresses / changes.

When a principal *Supplier* intends appointing *Contractor*, the principal *Supplier* shall ensure that the *Supplier* provides and demonstrate a suitable, sufficiently documented and coherent site-specific health and safety plan, based on the client's SHEQ specifications and scope of work

Health and Safety Arrangements

The *Supplier* ensures that all his personnel attend a Health and Safety Induction Course prior to contract starting date, and annual re- induction. The Induction Course is presented by the *Employer's* Safety Risk Department at the *Employer*. Arrangements are made with Safety Risk Management, by the *Contractor*.

The *Employer's* Safety Risk Manager visits and inspects the *Contractor's* workplace or site yard and the working areas to ensure that tools; machinery and Equipment comply with the minimum safety requirements.

The *Supply Manager* may instruct the *Supplier* to stop work, where the *Contractor's* personnel fail to conform to safety standards or contravene health and safety regulations. Such stop-work order is not a compensation event. The *Supply Manager* may instruct the *Supplier* to discipline his employees and to submit a disciplinary action report to the *Supply Manager*. The *Supplier* implements additional health and safety precautions where necessary.

Health and safety

The *Supplier* complies with the Occupational Health and Safety Act 85 of 1993, as well as per the *Employer's* procedure as stipulated below:

- d) SHEQ Policy 32-727
- e) The *Purchaser's* Procurement and Supply Chain Management Procedure 32-1034
- f) SHE Requirements for the *Purchaser's* Commercial Process 32-726
- g) *Supplier* Health and Safety Requirements 32-136
- h) Integrated SHE Organization, Roles and Responsibilities and Statutory Appointments 32- 296
- i) Live-saving Rules 240-62196227
- j) Working at Heights 32-418
- k) The *Purchaser's* Vehicle Safety Specifications 32-345
- l) the *PuchaserSupplier* SHEQ Specifications 14RISK SRM - 084

Site Regulations and Procedures

Site Regulations

The latest revision the *Puchaser's* Site Regulations form part of this contract.
Copies of these procedures are available on request.
(Any additional site regulations implemented will be applicable)
Safety risk management

“Standard for health and safety at Tutaka Power Station - requirements to be met by *Contractors*”.

Vehicle and driver safety

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

Speed Limit

All vehicles must be driven with due consideration for personnel and property. All speed limits will be adhered to on the premises at all times.

Transportation of passengers: open LDV's:

With effect from 31 May 2006 no *purchaser's* employee or *Supplier* would be allowed to transport passengers on the back of open light delivery vehicles (LDV's). It is a legal requirement to provide safe transportation of the *purchasers* and *Supplier* employees – therefore the following will be enforced:

The *Employer's* Life Saving Rules:

Five Life Saving Rules have been developed that will apply to all the *Employer's* employees, agents, Consultants and Contractors.

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

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

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

- d) Rule 4: Be sober (no person is allowed to work under the influence of drugs and Alcohol.
- e) Rule 5: Use a permit to work – where an authorization limitation exists, no person shall work without the required permit to work.

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

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

The *Supplier* shall appoint a person who will liaise with the *Purchaser's* Safety Officer responsible for the premises relevant to this contract.

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

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

Issue the *Supplier* with a work stop order or a compliance order should *Purchaser* become aware of any unsafe working procedures or conditions or any non-compliance with the Act, Regulations and Procedures by the *Supplier* or any of its employees, sub-Contractors or agents.

The *Contractors* Health and safety file is to be submitted for approval to the *Purchaser's* Safety Officer before contract commencement.

All work stoppages called by the *Purchaser* to be adhered to

Supplier's Responsible to ensure that his Letter of Good standing is valid at all times as stipulated in the construction regulations point 7 (C) (iv) and she specifications 2.5.2 (iv) and 3.10 *Supplier* will not be allowed on site if his letter of good standing is not valid

Security, fire protection and safety

The *Supplier* shall be responsible for ensuring the security of the works, and of his plant, equipment and materials. To that end he shall make adequate provision for access control, lighting and watchman to the works where required.

Fire protection

The provision of the *Employer's* standard NWS 1494 "Fire Prevention and Protection of *Contractor's* premises at New Works sites" shall be applicable.

Safety and incident prevention

The *Supplier* shall implement and maintain an active Site Safety and Accident Prevention Programme in accordance with the the *Puchaser's* SHEQ Specifications. The overriding regulations will however be the Occupational Health and Safety Act.

Incident Management, Corrective & Prevention Action Procedure to be adhered to – 14Risk IM PC-019

Reporting of accidents

The *Purchaser* follows an accident prevention policy that includes the investigation of all accidents involving personnel and property. This is done with the intention of introducing control measures to prevent a recurrence of the same incidents. The *Supplier's* expected to fully co-operate to achieve this objective. The *Supply Manager* must be informed immediately of any incidents. A written report to be submitted to the *Purchaser* within 24 Hours of incidents and any damage to property or equipment

NOTE! This report does not relieve the *Supplier* of his legal obligations to report certain incidents to the Department of Labour, or to keep records in terms of the Occupational Health and Safety Act, and Compensation for Occupational Injuries and Diseases Act.

Occupational Health and Safety Act 85 Of 1993 – SECTION 37

In accordance with Section 37 (2) of the Act, the *Supplier's* appointed by the *Purchaser's* mandatory to assume Health and Safety duties and responsibilities. The *Supplier* ensures compliance with all requirements of the Act and any instruction or notification that enhances those requirements.

The *Supplier* acknowledges that he is fully aware of all the requirements of the Occupational Health and Safety Act and undertakes to employ only staff who have been duly authorised in terms thereof and who receive sufficient safety training to ensure that they can comply therewith.

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

5.10 Environmental constraints and management

Not Applicable

5.11 Quality

- The *Supplier* must conform to Quality Management System-ISO 9001:2015 requirements.
- The *Supplier* to conforms to ISO 9001:2015 requirements (Quality Management System). *Supplier* is bound to conform to Eskom documented information such as procedures (Control of non-conforming output products and services), policies etc.
- *Supplier* to ensure all quality checks are done prior dispatch of components and where needed proof to be provided to the client.
- The *Supplier* will fully conform to the requirement of the *Supplier* Quality Requirement Specification (QM-58), standards, procedures, Eskom policies and etc.
- The *Supplier* might be subjected to audits and as part of monitoring.
- All documents that will be arising from this project must remain with the client such as manuals.
- Where applicable the service provider must conform to any statutory requirements

Where the principal *service* provider will be sub-contracting, the principal service provider must provide the documented information on how to control sub-contracted service provider.

For safe keeping of components packaging must be accordingly and manuals must be part of deliveries so that client will know how to preserve items.

Supplier to deliver according to client specification. Where ITP (Inspection Tests Plans) are required, *Supplier* to submit all test results to the client.

Quality control on components to be done by the end user, to confirm components received was based on the specification given.

Supplier to conform to QM58- *Supplier* Quality Management Specification, where possible or needed the *Supplier* might be audited.

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:

- a) Name and address of the *Supplier* and the *Supply Manager*.
- b) The contract number and title.
- c) *Contractor's* VAT registration number.
- d) The *Purchaser's* VAT registration number 4740101508.
- e) Description of service provided for each item invoiced based on the Price List.
- f) Total amount invoiced excluding VAT, the VAT and the invoiced amount including VAT.
- g) Purchase order number
- h) CPA calculation sheet

- i) CPA calculation sheet and the Invoice for CPA on the Invoice to be send to the financial department as per the *Employer's* Invoicing procedure / instruction.

5.13 Insurance provided by the *Purchaser*.

- NEC3 SC Insurance Core Clauses shall be applied and Z13 Insurance clause.

5.14 Contract change management.

- a) In a case where one *Supplier* takes over from another *Contractor*, the Site *Supply Manager* must be notified in writing immediately.
- b) The *Supplier* does not cede, delegate or assign any of its rights or obligations to any person without the written consent of the *Purchaser*.
- c) Changing the Service Information
- d) Access
- e) Provision by the *Purchaser*
- f) Stopping work
- g) Work of the *Purchaser* or others
- h) Reply to communication.
- i) Changing a decision
- j) Withholding acceptance
- k) Delayed tests or inspections
- l) Change of Affected property
- m) Materials, facilities, etc. for tests
- n) *Purchaser* risks
- o) Assumption about Compensation Events
- p) *Purchaser* breach of contract

5.15 Provision of bonds and guarantees.

Not Applicable

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

Will be done as per the *Employer's* invoicing and payment procedure and requirements.

6 Procurement

6.1 Subcontracting

6.1.1 Preferred subcontractors

Not Applicable

6.1.2 Limitations on subcontracting

Not Applicable

6.1.3 Spares and consumables.

Not Applicable

6.1.4 Other requirements related to procurement.

To be negotiated with *Supply Manager*

6.1.5 Cataloguing requirements by the *Supplier*

For new stock or change in stock numbers *Supplier* to discuss with the *Purchaser* for catalogue requirements

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.

Purchaser will not issue any drawings. As per OEM specifications

C3.2 *SUPPLIER'S* GOODS INFORMATION

- a) As per OEM specifications
- b) All relevant documentation to be handed in as requested from *Purchaser / Supply Manager*

- Low performance damages

X17.1 SERVICE LEVEL TABLE			
No	DESRICPTION OF TASK	QUALITY OF PERFORMANCE REASON FOR DAMAGES	DAMAGES TO BE IMPLEMENTED
1	Components performance	Failure to meet design performance requirements within warranty period.	Components to be collected, repaired and/or replaced by the <i>Contractor</i> .
2	Packing and preliminary marking of goods before delivery	All items must be wrapped with clear, plastic, bubble wrap that is clear or be placed inside cardboards for preservations purposes. The marking should be as follows Name of Supplier, Purchase order number, Part number and delivery date	2 % of order value and to be taken back for preservations

Risk Register

Description of the risk		Action to avoid or reduce the risk
Risk event	Cause & possible outcome	Action to be taken and who in terms of the contract is responsible for taking it
Delays on delivery	Load and production loss	Any expected delays must be communicated 2 days before delivering or earlier
Natural Disasters	Delay completion	Supplier assesses the risks that are likely and plan accordingly.
Correct material use	Premature failure of component	Material certificates for each new component used on the equipment to be submitted to Eskom with the data pack.
Delivery of defective spares	Load and production loss	QC, tests and inspections to be done by Purchaser prior delivery
Delivery of incorrect spares	Load and production loss	QC, tests and inspections to be done by Purchaser on delivery