Eskom

NEC3 Supply

Short Contract (SSC3)

A contract between **Eskom Holdings SOC Ltd (Reg No. 2002/015527/30)**

and

for **Supply and Delivery of Spares for Replenishment**

Contents: Compiled in accordance with CIDB Standard for Uniformity in Construction Procurement (May 2010) amendments)

Documentation prepared by: **Doreen Mbatha**

C1 Agreements & Contract Data

C1.1 Form of Offer and Acceptance

Offer

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

Supply and Delivery of Spares for Replenishment on "as and when required basis" at Kusile Power Station

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

This Offer may be accepted by the Purchaser by signing the form of Acceptance overleaf 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 .....

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 1 Agreements and Contract Data, (which includes this Form of Offer and Acceptance)

Part 2 Pricing Data

Part 3 Scope of Work: Goods Information

and drawings and documents (or parts thereof), which may be incorporated by reference into the above listed Parts.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Tender 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, which must be signed by the duly authorised representative(s) for both parties.

The tenderer shall within one week 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 copy of this document, including the Schedule of Deviations (if any) together with all the terms of the contract as listed above.

Unless the tenderer (now *Supplier*) within five working days of the date of such receipt notifies the Purchaser in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the Parties.

Signature(s)			
Name(s)	Christopher Nani		
Capacity	General Manager: Kusile Power Station		
for the Purchaser	Eskom Holdings SOC Limited Kusile Power Station R545 Kendal/Balmoral Rd Haartebeesfontein Farm Witbank		
Name & signature of witness		Date	

Note: If a tenderer wishes to submit alternative tender offers, further copies of this document may be used for that purpose, duly endorsed, 'Alternative Tender No. _____ '

Schedule of Deviations

Note:

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

No.	Subject	Details
1		
2		
3		
4		
5		
6		
7		

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

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

	For the tenderer:	**For the Purchaser**
Signature		
Name		Christopher Nani
Capacity		General Manager: Kusile Power Station
On behalf of	*(Insert name and address of organisation)*	Eskom Holdings SOC Limited Kusile Power Station R545 Kendal/Balmoral Rd Haartebeesfontein Farm Witbank
Name & signature of witness		
Date		

C1.2 Contract Data

Data provided by the *Purchaser*

Clause	Statement	Data
	General	
10.1	The *Purchaser* is (Name):	**Eskom Holdings SOC Limited (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.	
	E-mail address	
11.2(4)	The *delivery date* is **[If the *goods* are instructed by Batch Order enter the data, "The delivery date is identified in the Batch Order"]**	**Delivery will be as per purchase order issued**
11.2(5)	The Goods Information is in	**the document called 'Goods Information' in Part 3 of this contract.**
11.2(8)	The *goods* are	**Spares**
12.2	The *law of the contract* is	**the Republic of South Africa**
13.2	The *period for reply* is	**Two (2) working days**
15.1	The *premises* are	**Kusile Power Station**
23.1	The *Purchaser* requires the *Supplier* to Provide the Goods when instructed by Batch Order.	**Yes**
23.1	If the *goods* are instructed by Batch Order,	**The Purchaser requires the Supplier to Provide the Goods when instructed by Batch Order. The starting date is upon receipt of the official purchase order.**
	the batch order interval is	**N/A**
	the end date is	**Twelve months after signed contract**
	the quantity range of *goods* in a batch is	**Will be determined per order**
30.1	The *starting date* is.	**Contract Signature Date**
41.1	The *defects date* is	**Shelf Life and/or applicable warranty after Delivery.**
42.2	The period for the correction of Defects after Delivery is	**Five (5) working days after notification**
50.1	The *assessment day* is the	**Assessment will be done on the 25th of every successive month.**

50.5	The *delay damages* are **[If the *goods* are instructed by Batch Order enter a *delay damage* amount appropriate to the quantity or use of the *goods* in the Batch]**	**2.5% (two) per day up to a maximum of 10 % of the purchase order value.**
51.2	The interest rate on late payment is	**The supplier must ensure that the submitted invoice meets Eskom's processing requirements to avoid any delays in payment.**
86.1	The *Supplier*'s liability to the *Purchaser* for indirect or consequential loss, including loss of profit, revenue and goodwill is limited to	**Zero**
86.2	The *Supplier* is not liable to the *Purchaser* for loss of or damage to the *Purchaser*'s property in excess of	**Supplier is liable, without proof of negligence on the part of the supplier of the goods, for any harm caused by the goods.** **The Supplier's liability to the Purchaser arising after the end of the warranty period and after low performance and delay damages due have been paid (subject to the exceptions)**
93.1	The *Adjudicator* 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).**
93.2(2)	The *Adjudicator nominating body* is:	**the Chairman of ICE-SA a joint Division of the South African Institution of Civil Engineering and the Institution of Civil Engineers (UK) or its successor body (See www.ice-sa.org.za).**
93.4	The *tribunal* is: If the *tribunal* is arbitration, the arbitration procedure is	**arbitration.** **the latest edition of Rules for the Conduct of Arbitrations published by The Association of Arbitrators (Southern Africa) or its successor body.**
11.1	**The *conditions of contract* are the NEC3 Supply Short Contract (April 2013)[1] [2]and the following additional conditions.** **[Only enter details here if additional conditions are required, otherwise state 'none']**	

[1] Can be obtained from Engineering Contract Strategies on www.ecs.co.za, Tel 011 803 3008, Fax 086 539 1902
[2] If the December 2009 edition is being used, replace April 2013 with December 2009

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 and the Electricity Distribution Industry.

Z2 Change of Broad Based Black Economic Empowerment (B-BBEE) status

Z2.1 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.

Z2.2 The *Supplier* is required to submit an updated verification certificate and necessary supporting documentation confirming the change in his B-BBEE status to the *Purchaser* within thirty days of the notification or as otherwise instructed by the *Purchaser*.

Z2.3 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.

Z2.4 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 the same as for Reason 3 identified in clause 90.3.

Z3 Waiver and estoppel: Add to clause 12.3:

Z3.1 Any extension, concession, waiver or relaxation of any action stated in this contract by the Parties*,* 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.

Z4 Provision of a Tax Invoice and interest. Add to clause 51

Z4.1 The *Supplier* provides the *Purchaser* with a tax invoice in accordance with the *Purchaser*'s procedures stated in the Goods Information, showing the correctly assessed amount due.

Z4.2 If the *Supplier* does not provide a tax invoice by the time required in this contract for his assessment of each amount due, 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.

Z4.3 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.

Z5 *Purchaser's* limitation of liability

Z5.1 The *Purchaser's* liability to the *Supplier* for the *Supplier's* indirect or consequential loss is

limited to R0.00 (zero Rand)

Z5.2 The *Supplier*'s entitlement under the indemnity in 83.1 is provided for in 60.1(8) and the *Purchaser*'s liability under the indemnity is limited.

Z6 Termination: Add to clause 90.2 before (Reason 1)

Z6.1 or had a judicial management order granted against it.

Z7 Addition to clause 50.5

Z7.1 If the amount due for the *Supplier*'s payment of *delay damages* reaches the limits stated in this Contract Data (if any), the *Purchaser* may terminate the *Supplier*'s obligation to Provide the Goods using the same procedures and payment on termination as those applied for Reason 3. Identified in clause 90.3.

Z8 Ethics

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

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

Z8.1 A Committing Party may not take any Prohibited Action during the course of the procurement of this contract or in execution thereof.

Z8.2 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.

Z8.3 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.

Z8.4 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.

Z9 Insurance

Replace condition of contract 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 in this Insurance Table A from the *starting date* until Delivery and against any risks he carries under this contract between Delivery and the *defects date*.

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 *Purchaser*'s insurance. The *Purchaser*'s policy deductible as at contract date where covered by the *Purchaser*'s 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 *Supplier*) caused by activity in connection with this contract	**Loss of or damage to property** *Purchaser*'s property The replacement cost where not covered by the *Purchaser*'s insurance. The *Purchaser*'s policy deductible as at contract date, where covered by the *Purchaser*'s insurance.

	Other property The replacement cost **Death of or bodily injury** The amount required by the applicable law.
Liability for death of or bodily injury to employees of the *Supplier* arising out of and in the course of their employment in connection with this contract	The amount required by the applicable law

84.2 The *Purchaser* provides the insurances in this Insurance Table B

INSURANCE TABLE B

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

Z10 Nuclear Liability

Z10.1 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.

Z10.2 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*.

Z10.3 Subject to clause Z10.4 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*.

Z10.4 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.

Z10.5 The protection afforded by the provisions hereof shall be in effect until the KNPS is decommissioned.

Z11 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 *Purchaser*'s 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.

Z11.1 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.

Z11.2 Upon written request by the *Supplier*, the *Purchaser* certifies that these conditions prevail. All measurements and reporting are effected by an independent, competent, and certified occupational hygiene inspection body, i.e. a SANAS accredited and Department of Employment and Labour approved AAIA. The *Supplier* may perform Parallel Measurements and related control measures at the *Supplier*'s expense. For the purposes of compliance the results generated from Parallel Measurements are evaluated only against South African statutory limits as detailed in clause Z11.1. Control measures conform to the requirements stipulated in the AAIA-approved asbestos work plan.

Z11.3 The *Purchaser* manages asbestos and ACM according to the Standard.

Z11.4 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.

Z11.5 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.

Z11.6 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.

Z11.7 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.

Data provided by the *Supplier* (the *Supplier*'s Offer)

The tendering Supplier is advised to read both the NEC3 Supply Short Contract (April 2013) and the relevant parts of its Guidance Notes (SSC3-GN)[3] in order to understand the implications of this Data which the tenderer is required to complete. An example of the completed Data is provided on page 28 of the SSC3 Guidance Notes and Flow Charts.

Completion of the data in full is essential to create a complete contract.

10.1	The *Supplier* is (Name): Address Tel No. Fax No. E-mail address	
11.2(7)	The Price Schedule is in	**the document called 'Price Schedule' in Part 2 of this contract.**
11.2(7)	The offered total of the Prices	**See C1.1 Form of Offer and Acceptance**
63.2	The percentage for overheads and profit added to the Defined Cost is	**[●]%**

[3] Available from Engineering Contract Strategies on www.ecs.co.za Tel 011 803 3008, Fax 086 539 1902.

C2 Pricing Data

C2.1 Pricing assumptions

Entries in the first four columns of this Price Schedule are made either by the *Purchaser* or the tenderer. If the *Supplier* is to be paid an amount for the item which is not adjusted if the quantity of goods in the item changes, the tenderer 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 of goods which is the rate for the goods multiplied by the quantity supplied, the tenderer enters a rate for each item and multiplies it by the Quantity to produce the Price, to be entered in the final column.

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

C2.2 Price Schedule

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

Item no.	Description	Unit	Quantity	Rate	Price
1	SWITCH, PRESSURE: TYPE: N/C OR N/O; RANGE: 2-8 BAR; ACTION: ELECTROMECHANICAL; APPLICATION: OIL; CLASSIFICATION: OIL; ENCLOSURE RATING: IP65; SPECIFICATION: DIN EN 175301-803; OEM P/N: VD 8 D.0 /-L24; PERMITTED OPERATING.PRESSURE – 420 BAR. PERMITTED TEMPERATURE RANGE - -30 °C TO +100 °C.USED ON 60-4 0HAY62 CP301, PLEASE PROVIDE DATA SHEET,; CONNECTION: THREAD SIZE G ½; DIMENSIONS: WD 30 X LG 110 X THK 50 MILLIMETER; POTENTIAL: 230 VOLT ALTERNATING CURRENT; CURRENT: 6 AMPERE; POWER: 24 VOLT; CONTACT ARRANGEMENT: SPDT	EA	4		
2	MODULE: TYPE: CP 341; OUTPUT: 24 VDC; APPLICATION: USE AT FGD OXI-BLOWER PLANT; DIMENSIONS: WD 40 X HT 125 X DP 120 MM; OEM P/N: 6ES73411CH020AE0; SIMATIC S7-300, COMMUNICATIONS PROCESSOR WITH RS422/485 INTERFACE	EA	4		
3	DETECTOR: TYPE: TRIBOELECTRIC MEASURING DEVICE; RATING: ACCORDING TO DIN 40050; MOUNTING: DIRECTLY MOUNTED ON SIDE OF DUCT; SPECIFICATION: EMV DIRECTIVE 89/336/EEC; LOW VOLTAGE DIRECTIVE 73/23/EEC; SUPPL P/N: PFM 92 C; IP65	EA	26		
4	TRANSMITTER, LEVEL: RANGE: 35 M; OUTPUT: 4 – 20 MA; SUPPLY: 9.6 – 36 V DC; WORKING PRESSURE: 40 BAR; TYPE: RADAR LEVEL SENSOR; BODY MATERIAL: STAINLESS STEEL; DIAPHRAGM MATERIAL: ALLOY C22, ALLOY 400; ELECTRICAL CONNECTION: 2 WIRE; APPLICATION: RADIAL STACKER ASH PILE SENSOR; MANUF P/N: PS62.XXDGD2HKMXX; SPECIFICATION: 34496-EN-160119; MODEL NO: VEGAPULS 62; ORDER CODE = ZC2955296 OPERATING INSTRUCTIONS QUICK SETUP GUIDE 36503-EN 47109-ENMODEL NO: VEGAPULS 62; CONNECTION: G1 ½	EA	6		

	THREADED				
5	POWER SUPPLY: INPUT: 120-230 V 4.4-2.4 A 50/60 HZ; OUTPUT VOLTAGE: 24 VDC; OUTPUT CURRENT: 10 A; APPLICATION: SITOP PSU200M; DIMENSIONS: SQ 130 X WD 80 MM; CLASSIFICATION: CL 1 DIV 2; TYPE: SIGNALING MODULE; MOUNTING: SNAP ON; SPECIFICATION: DIN EN 60715-TH35-15/7.5; OEM P/N: 6EP1334-3BA10, OEM: SIEMENS	EA	7		
6	MODULE: TYPE: TEMPERATURE CONTROL RELAY; POWER SOURCE: 24-240 VAC/DC 50 HZ; APPLICATION: DRY TYPE TRANSFORMER WINDING TEMPERATURE MONITOR; DIMENSIONS: WD 92 X HT 92 X DP 131 MM; SUPPL P/N: NT935-AD; OUTPUT: 1 SENSOR OR OPERATION FAILURE (FAULT) RELAY SPST; OUTPUT RELAYS WITH 10A-250VAC-RES COS=1 CONTACTS; MODBUS RTU RS485 OUTPUT; AMBIENT OPERATING TEMPERATURE: -20 TO 60 DEG C; ABSORPTION 7.5VA; 3 DIGIT LOCAL TEMPERATURE DISPLAY; 3 DIGIT LOCAL CHANNEL DISPLAY; 4 X PT100 INPUTS (3 WIRE); 2 X SPDT (ALARM & TRIP)' 1 X SPST (FAULT); 1 X 4-20MA; 1 X MODBUS RTU RS485	EA	1		
7	SWITCH, LEVEL: CURRENT: 1 A DC; CONTACT ARRANGEMENT: 2 FLOATING CHANGE OVER CONTACTS; APPLICATION: ANTI COLLISION SLEW PROBE; ELECTRICAL CONNECTION: 2 WIRE; ENCLOSURE RATING: IP66/67; CLASSIFICATION: NONE HAZARDOUS; LENGTH 2000 MM, PROCESS CONNECTION THREADED VERSION, -1 TO 64 BAR, 20 TO 253 VAC, 8 VA AC,; RANGE: -50 TO 150 DEGREE CENTIGRADE; POTENTIAL: 20 TO 72 VOLT DIRECT CURRENT; ACTION: DPDT; POWER: 1.5 WATT; METHOD OF ACTUATION: CAPACITANCE	EA	45		
8	HOSE, FLEXIBLE METAL: HOSE SIZE: 8 MM; LENGTH: 1.1 M; CONNECTION SIZE: 7/11 MM; CONNECTION TYPE: TAPER NIPPLE; MATERIAL: STAINLESS STEEL; RATING: 6 BAR; TYPE: HIGH PRESSURE; SPECIFICATION: INSTRUMENT AIR; MAXIMUM OPERATING PRESSURE: 44 BAR; SUPPL P/N: 323274; CORRUGATED STAINLESS STEEL FLEXIBLE TUBE, A NIPPLE WITH CYLINDRICAL TUBE THREAD, DN8 X 1100 MM	EA	300		

9	LAMP, AUTOMOTIVE: TYPE: HEADLIGHT; POWER: 55-60 W; POTENTIAL: 220 VAC; COLOR: CLEAR; CONNECTION TYPE: PLUG; SPECIFICATION: IPX4; SUPPL P/N: H7R.2; STYLE: 117753; RECHARGEABLE BATTERY PACK, BATTERY SIZE: 4X AA; BULB TYPE: LED LENSER; ADJUSTABLE HEADBAND; USB CHARGER	EA	300		
10	CONTROLLER, ELECTRONIC: TYPE: CONTROLLER; POTENTIAL: 240 VAC; INPUT: 240 VAC; SPECIFICATION: IP 66; REFERENCE NO: P0903055; SUPPLIER:STI; SERIAL NO: P0903055; PLEASE SUPPLY AND DELIVER THE FOLLOWING STI SMART TRACK CONTROLLER; SERIAL NO P0900024V TAG 29799; SUPPLY VOLTAGE 240 VAC; FREQUENCY 50-60HZ; ABIENT TEMPERATURE -20 TO T0 DEGREES CELCIUS; THE CONTROLLER ENCLOSURE IS RATED FOR NEMA4X / IP66 ENVIRONMENT; INSIDE CONTROLLER BOX THREE ELECTRONIC BOARDS ARE MOUNTED; THE FIRST ONE IS MOUNTED ON THE CONTROLLER COVER AND IT IS CALLED :DISPLAY BOARD" (STI P/N 64037); THE SECOND ONE IS MOUNTED ON THE BOTTOM OF THE CONTROLLER'S BOX AND IS CALLED "POWER BOARD:(STI P/N 64038); THE 3RD ONE IS THE DRIVER IF THE HYDRAULIS PROPORTIONAL VALUE AND IT IS PLUGGED IN TO POWER BOARD (P/N CS05032BT)	EA	14		
11	MODULE, COMMUNICATION: TYPE: SYNCHRONIZATION; OEM P/N: A900-CM-GNSS; GLOBAL NAVIGATION SATELLITE SYSTEM MODULE	EA	18		
12	KIT, CABLE JOINT: CABLE SIZE: 20-50 MM2; TYPE: ELECTRICAL; CONDUCTOR: 2/3/4 CORE CU, 10-16 MM2; POTENTIAL: 1.1 KV; SUPPL P/N: J3; SPLICE ELECTRICAL, POLYETHYLENE INSULATION, PVC/SWA/PVC CABLES	EA	8		
13	GLAND, CABLE: SIZE: NO 0; MATERIAL: BRS NICKEL PLTD; MANUF P/N: 0535-0; REFERENCE NO: CCG.A2; TYPE: COMPRESSION; CONNECTION: COMPRESSION	EA	20		
14	DESICCANT: TYPE: SILICA GEL; CONTAINER: BAG 25 KG; MESH: 3-6	EA	50		

	MM; ENVIROGEL ORANGE INDICATING BEADS; FOR USE ON TRANSFORMER BREATHERS; TO BE PROPERLY SEALED SO THAT MOISTURE WILL NOT BE ABSORBED; DELIVERY WILL NOT BE ACCEPTED IF HAZARDOUS CHEMICAL DATA SHEET IS NOT SUPPLIED WITH EVERY DELIVERY				
15	GLAND, CABLE: SIZE: NO 3; MATERIAL: BRS NICKEL PLTD; MANUF P/N: 050303; REFERENCE NO: CCG-BW; FOR STEEL WIRE ARMOURED; TYPE: CAPTIVE CONE	EA	20		
16	BALLAST, LAMP: TYPE: FLUORESCENT; POTENTIAL: 198-264 VAC; LAMP ACCOMMODATION QUANTITY: 2; CURRENT: 0.31 MA; POWER: 36 W; LAMP STYLE: TUBE; BALLAST STYLE: ELECTRONIC; SUPPL P/N: QTP2X36/230-240; QUICK TRONIC PROFESSIONAL TYPE, FOR DOUBLE LIN36W/21 LUMILUX PLUS 4 FOOT TUBES	EA	96		
17	SENSOR: TYPE: PROXIMITOR; RATING: 24 VDC; SUPPL P/N: 330180-51-00; 3300XL, FOR USE WITH KEYPHASOR, MUST BE CHECKED AT RECEIVING BEFORE BEING PLACED ON THE SELF; RANGE: 0-25 MILLIMETER	EA	4		
18	CABLE, ELECTRICAL: VOLTAGE: 0.6/1 KV; CORE QUANTITY: 4; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 2.5 MM2; ARMOR: UNARMORED; DESIGN TYPE: INDUSTRIAL; BEDDING LAYER MATERIAL: PVC; SHEATH MATERIAL: PVC; TYPE: CONDUIT, STRANDED; COVERING: BLACK; RATING: 0.6/1 KV; SPECIFICATION: SANS 139; WEIGHT PER UNIT MEASURE: 0.24 KG/M; TEMPERATURE RATING: 70 DEG C; CONDUCTOR INSULATION: PVC; REFERENCE NO: BVV04DCM; F4CC 4925 002; LH WITH BLUE STRIPE UNARMOURED COVERING; TEST CERTIFICATES TO BE SUPPLIED WITH DELIVERY	EA	4000		
19	CABLE, ELECTRICAL: VOLTAGE: 0.6/1 KV; CORE QUANTITY: 4; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 6 MM2; ARMOR: UNARMORED; DESIGN TYPE: INDUSTRIAL; BEDDING LAYER MATERIAL: PVC; SHEATH MATERIAL: PVC; TYPE: STRANDED; COVERING: PVC; RATING: 0.6/1 KV; SPECIFICATION: SANS 1339; WEIGHT PER UNIT MEASURE: 0.46 KG/M;	EA	2000		

	TEMPERATURE RATING: 70 DEG C; CONDUCTOR INSULATION: PVC; REFERENCE NO: BVV04FCM; LH WITH BLUE STRIPE COVERING; TEST CERTIFICATE TO BE SUPPLIED WITH DELIVERY				
20	CABLE, ELECTRICAL: VOLTAGE: 0.6/1 KV; CORE QUANTITY: 3; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 70 MM2; RATING: 0.6/1 KV; CONDUCTOR INSULATION: PVC LH PVC SWA; REFERENCE NO: BVX03NCM; LOW HALOGEN WITH A BLUE STRIPE COVERING	EA	300		
21	BALLAST, LAMP: TYPE: FLUORESCENT; POTENTIAL: 220 V; CURRENT: 0.76 A; POWER: 80 W; LAMP STYLE: FLUORESCENT TUBE; BALLAST STYLE: QUICK TRONIC; LENGTH: 42 MM; HEIGHT: 20 MM; SPECIFICATION: QT-FQ; MOUNT: FLAT BASE; WIDTH: 30 MM	EA	100		
22	SWITCH, PROXIMITY: TYPE: MAGNETIC; SENSING RANGE: 2.5 MM; POTENTIAL: 24 VDC; ACTION: SPDT; CONTACT ARRANGEMENT: 1NO 1NC; CONTACT RATING: 24 VDC 3 A; APPLICATION: IDLER WHEEL ROTATION; MANUF P/N: 74-13528-B3; CONTACT MATERIAL: DALLADIUM SILVER WITH SAWTOOTH SURFACE; EPOXY FILLED; RESPONSE TIME: LESS THEN 8 MS; OPERATING TEMP: -40 DEG C TO 105 DEG C; HOUSING MATERIAL: 303 SS; CABLE LENGHT: 1.8 M; 48 MM OF THE COMPLETE LENGHT MUST BE THREADED; SENSING RANGE CAN BE 9 MM WITH TARGET MAGNET; TO BE SUPPLIED WITH TARGET MAGNET AMP3 - 21 MM X 13.65 MM; ALL TENDERS/QUOTES TO BE ACCOMPANIED BY APPLICABLE DATA SHEETS AND/OR DRAWINGS OF ITEM(S) TENDERED ON; TENDERS WITHOUT DATA SHEETS AND/OR DRAWINGS WILL BE REJECTED; DIMENSIONS: DIA 16 X LG 70 MILLIMETER; CURRENT: 3 AMPERE	EA	5		
22	ASSEMBLY: TYPE: ELT TEAR DETECTOR UNIT; APPLICATION: CONVEYOR BELT; MATERIAL: STAINLESS STEEL; COMPRISING: POTENTIOMETER, SPRING, ROLLER; MANUF P/N: BSD47	EA	5		
23	KIT, PUMP REPAIR: TYPE: CENTRIFUGAL; APPLICATION: PUMPS;	EA	6		

	COMPRISING: BEARINGS P/N 713580160; GASKETS P/N 713580430; MECHANICAL SEAL P/N 772240943; SHAFT KEYS/NUTS P/N 743980040; SHAFT SLEEVE P/N 763470140; TRIMMED IMPELLER DIA 300 MM P/N 76018203N; MODEL NO: LSN-125-330-S1VL1-13202				
24	KIT, PUMP REPAIR: TYPE: CENTRIFUGAL; APPLICATION: PUMPS; MODEL NO: LS-150-500S1VL1-16004; COMPRISING: TRIMMED DIAMETER IMPELLER 500 MM: P/N 76018169B; WEAR RING SUCTION SIDE: P/N 760950120; WEAR RING DISCHARGE SIDE: P/N 760950090; SHAFT WITH KEYS AND NUTS: P/N 743580010; BEARINGS: P/N 713580160; SHAFT SLEEVE: P/N 763470680; GASKETS: P/N 713580190; MECHANICAL SEAL: P/N 772240943	EA	3		
25	CONNECTOR, LUG: TYPE: NON INSULATED; CONDUCTOR: 70 MM2; HOLE SIZE: 12 MM; TERMINATION END: RING; INSULATION: NO; CONDUCTOR CONNECTION: CRIMP; POTENTIAL: 1 KVAC; COLOR: SILVER; SUPPL P/N: XL0510; MATERIAL: CU TIN PLTD ELECTROLYTIC	EA	150		
26	VALVE, BUTTERFLY: TYPE: HIGH PERFORMANCE; VALVE SIZE: 400 MM; DESIGN RATING: 400 KPA G; TEMPERATURE RATING: 50 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: ASTM A351 GR CF8M; FACE TO FACE LENGTH: 104 MM; OPERATED: MANUAL/PNEUMATIC; TRIM: DISC/GLAND RETAINER/SEAT RETAINER ASTM A351 GR CF8M; RETAINING RING/WASHER SS GR 18-8; SEAT RPTFE; STEM ASTM A564 TYPE 630; SOFTGOODS: STEM SEAL RING CARBON FIBER/PTFE; APPLICATION: WATER; SPECIFICATION: 41-1600; STYLE: LUG; DRAWING NO: BGY-000284 REV 0	EA	15		
27	VALVE, BUTTERFLY: TYPE: HIGH PERFORMANCE; VALVE SIZE: 500 MM; DESIGN RATING: 1000 KPA G; TEMPERATURE RATING: 110 DEG C; CONNECTION: FLANGE ANSI 150; BODY MATERIAL: ASTM A351 GR CF8M; FACE TO FACE LENGTH: 104 MM; OPERATED: MANUAL/PNEUMATIC; TRIM: DISC/GLAND RETAINER/SEAT RETAINER ASTM A351 GR CF8M; RETAINING RING/WASHER SS GR 18-8; SEAT RPTFE; STEM ASTM A564 TYPE	EA	14		

	630; SOFTGOODS: STEM SEAL RING CARBON FIBER/PTFE; APPLICATION: WATER; SPECIFICATION: 41-2000; STYLE: LUG; DRAWING NO: BGY-000285 REV 0				
28	DESICCANT: TYPE: SILICA GEL; CONTAINER: 1 KG; SUPPL P/N: FS-AP03F5100; DRY FILTER	EA	200		
29	FILTER, AIR: TYPE: 8 POCKET; DIMENSIONS: SQ 600 X THK 300 MM; MATERIAL: FIBER; APPLICATION: AIR CONDITIONER; SECONDARY AIR FILTERS; EFFICIENCY: 85 PCT; SHAPE: SQ; SUPPL P/N: DPF85-600-600-300; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	80		
30	METER, FLOW: TYPE: ELECTROMAGNETIC; MATERIAL: AL CAST; ENCLOSURE RATING: IP67 NEMA 4X; SUPPL P/N: 50W2F-UR0A4AA0AABD; CL150; SS 316L; FLANGE ANSI B16.5; CALIBRATION: 0.5PCT; ELECTRODES: 1.4435/316L; HOUSING: COMPAC ALU; OUTPUT: 4-20MA; CABLE ENTRY: GLAND M20; CALIBRATION CERTIFIACE RQUIRED; CONNECTION: FLANGE; RANGE: 0-110000 CUBIC METER PER HOUR; POTENTIAL: 85-260 VOLT ALTERNATING CURRENT	EA	2		
31	TRANSMITTER, PRESSURE: RANGE: 0-3 BAR; OUTPUT: 4-20 MA; SUPPLY: 11.5-45 VDC; CONNECTION: 1/4 IN-NPT; BODY MATERIAL: ALUMINIUM; TYPE: CONTINUOUS MODULARITY; APPLICATION: FGD BLOWERN DIFFERENTIAL PRESSURE; CLASSIFICATION: NON HAZARDOUS; MOUNT: BRACKET; ENCLOSURE: IP66/67; SUPPL P/N: PMD75-ABA7H11BAUA	EA	6		
32	BALLAST, LAMP: TYPE: HIGH PRESSURE SODIUM; POTENTIAL: 230 VAC; LAMP ACCOMMODATION QUANTITY: 1; CURRENT: 7.5 A; POWER: 100 W; LAMP STYLE: NAV-T; BALLAST STYLE: MAGNETIC; MOUNT: BOLTED; SUPPL P/N: 89121968	EA	57		
33	HEAT EXCHANGER: TYPE: SHELL/TUBES; PASS: 2; RATING: 88KW PN40; DIMENSIONS: SHELL: 219.1 MM X TUBE: DN80; SUPPL P/N: KS20-AEN-	EA	3		

	421-L1300; OIL CONNECTION: SAE 2-1/2IN WATER CONNECTION; 1.4404 TUBES; STEEL SHELL; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).				
34	POSITIONER, VALVE: TYPE: FLUID; SUPPLY PRESSURE: 1.4-6.9 BAR; INPUT: 24 VDC; SUPPL P/N: SVI2-21113121; PNEUMATIC TRAIN: SINGLE ACTING; COMMUNICATION: HART 4-20MA; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	14		
35	CABLE, ELECTRICAL: VOLTAGE: 0.6/1 KV; CORE QUANTITY: 1; CONDUCTOR MATERIAL: COPPER; CONDUCTOR SIZE: 240 MM2; ARMOR: UNARMORED; DESIGN TYPE: BVV01TCM; BEDDING LAYER MATERIAL: PVC; SHEATH MATERIAL: LOW HALOGEN PVC SHEATHED BLACK WITH BLUE STRIPE; STANDARD: SANS1507 PART3; TYPE: STRANDED; COVERING: PVC; RATING: 0.6/1 KV; SPECIFICATION: SANS 1507-3; LENGTH: DRUM 1000 M; APPLICATION: LOW VOLTAGE DISTRIBUTION; PVC FIRE RETARDANT (FR) BLACK/BLUE (LHFR) ONE CORE LV CABLE	EA	2500		
36	UNION, PIPE: SIZE: DN8; CONNECTION: 1/4 IN; MATERIAL: POLYURETHANE; SUPPL P/N: 153005; PUSH-IN MALE THREADED WITH EXTERNAL HEX CONNECTION	EA	30		
37	MODULE: TYPE: ACOUSTIC HEAD AMPLIFIER; OUTPUT: 4-20/0-10 MA; POWER SOURCE: 24 VDC 0.3 A; APPLICATION: TUBE LEAK DETECTOR SIGNAL PROCESSING UNIT; DIMENSIONS: WD 230 X LG 300 X HT 132 MM; SUPPL P/N: EA81-014-000/EA81-015-000; IP65; OPERATING TEMP: -10 TO 55 DEG; ACOUSTIC HEAD AMPLIFIER NO A/P; CONSISTING OF THE ACOUSTIC HEAD AMPLIFIER CARD AND BOX ASSEMBLY	EA	8		
38	TRANSMITTER, PRESSURE: RANGE: 0-1200 KPA; OUTPUT: 1200 KPA; SUPPLY: 24 V; CONNECTION: DN50 MM; APPLICATION: FGD BLEED PUMP EXHAUST 10HTN20CP001; CAPPILARY LENGTH: 10 M; ENCLOSURE:	EA	9		

	ALUMINIUM; SUPPL P/N: PMP75-ABA1SC2B319E				
39	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: DN80; DESIGN RATING: 16 BAR; TEMPERATURE RATING: -10 TO 120 DEG C; CONNECTION: LUG; BODY MATERIAL: DUCTILE IRON ASTM A3356 GR65-45-12; FACE TO FACE LENGTH: 80 MM; OPERATED: ACTUATOR ELECTRIC; SOFTGOODS: BODY AND BONNET: DUCTILE ASTM A536 GR65-45-12; FULLY EPDM(SYNTHETIC RUBBER) LINED; SEAT: EPDM; DISC: HASTELLOY C22; APPLICATION: REAGENT TO WET SCRUBBER ABSORBER 1 MOV-10-60HTK11/21/31AA101; GRADE: LV2; SPECIFICATION: LEAKAGE CLASS: CLASS VI; ANSI FCI 70-2 AND IEC60534-4; SUPPL P/N: SGM05.01-F07/DN80; VALVE INSTALLED WITH HORIZONTAL STEM; SEALING SEAT/PLUG: SSTSO CS; RULES FOR SEALING: DRILLING TEMPERATURE AS PER PN16 EN1092-1; FULLY EPDM, SYNTHETIC RUBBER, LINED; PROTECTION: IP55	EA	1		
40	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: DN100; DESIGN RATING: 16 BAR; TEMPERATURE RATING: -10 TO 120 DEG C; CONNECTION: LUG; BODY MATERIAL: DUCTILE IRON ASTM A3356 GR65-45-12; FACE TO FACE LENGTH: 100 MM; OPERATED: ACTUATOR ELECTRIC; SOFTGOODS: BODY AND BONNET: DUCTILE ASTM A536 GR65-45-12; FULLY EPDM(SYNTHETIC RUBBER) LINED; SEAT: EPDM; DISC: DUCTILE ASTM A536 GR65-45-12; FULLY EPDM(SYNTHETIC RUBBER) LINED; APPLICATION: WET SCRUBBER ABSORBER 1 GYPSUM RECYCLE TO ABSORBER FLUSHING MOV-10-60HTN64AA101; GRADE: LV2; SPECIFICATION: LEAKAGE CLASS: CLASS VI; ANSI FCI 70-2 AND IEC60534-4; SUPPL P/N: SGM05.01-F07/DN100; VALVE INSTALLED WITH HORIZONTAL STEM; SEALING SEAT/PLUG: SSTSO CS; RULES FOR SEALING: DRILLING TEMPERATURE AS PER PN16 EN1092-1; FULLY EPDM(SYNTHETIC RUBBER) LINED; PROTECTION: IP55	EA	1		
41	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: DN 250; DESIGN RATING: 10 BAR; TEMPERATURE RATING: -10 TO 120 DEG C; CONNECTION: LUG; BODY MATERIAL: DUCTILE ASTM A536 GR65-45-12; FACE TO FACE LENGTH: 250 MM;	EA	1		

	OPERATED: ACTUATOR ELECTRIC; SOFTGOODS: BODY AND BONNET: DUCTILE ASTM A536 GR65-45-12; FULLY EPDM(SYNTHETIC RUBBER) LINED; SEAT: EPDM; DISC: DUCTILE ASTM A536 GR65-45-12; FULLY EPDM(SYNTHETIC RUBBER) LINED; APPLICATION: FILTER FEED TANK TO DEWATERING 1 MOV-00HTN26AA131/2/3/4 OR 00HTN25AA1111/2/3/4; GRADE: LV2; SPECIFICATION: LEAKAGE CLASS: CLASS VI; ANSI FCI 70-2 AND IEC60534-4; SUPPL P/N: SGM10.1-F10/DN250; VALVE INSTALLED WITH HORIZONTAL STEM; SEALING SEAT/PLUG: SSTSO CS; RULES FOR SEALING: DRILLING TEMPERATURE AS PER PN16 EN1092-1; FULLY EPDM (SYNTHETIC RUBBER) LINED; PROTECTION: IP55				
42	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 80 MM; DESIGN RATING: 16 BAR; TEMPERATURE RATING: -10 TO 120 DEG C; CONNECTION: FLANGE PN16; BODY MATERIAL: SPHERIODAL GRAPHITE CI JS1030 (3G); FACE TO FACE LENGTH: 46 MM; OPERATED: LEVER-SR-180 MM; SOFTGOODS: SHAFT: SS 1.4029 (6K); DISC: SPHERIODAL GRAPHITE CAST IRON JS1030 WITH HARD RUBBER COATING (3P); APPLICATION: LIMESTONE REAGENT TO ABSORBER; SUPPL P/N: 16DN80.T4.PN16.3G6K3PXA-LEVER-SR-180; WITH RAISED FACE-T4; LINER-EPDM XA (XA); ISORIA	EA	5		
43	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: DN150; DESIGN RATING: 16 BAR; TEMPERATURE RATING: -10 TO 120 DEG C; CONNECTION: LUG; BODY MATERIAL: DUCTILE ASTM A536 GR65-45-12; FACE TO FACE LENGTH: 150 MM; OPERATED: ACTUATOR ELECTRIC; SOFTGOODS: BODY AND BONNET: DUCTILE ASTM A536 GR65-45-12; FULLY EPDM(SYNTHETIC RUBBER) LINED; SEAT: EPDM; DISC: DUCTILE ASTM A536 GR65-45-12; FULLY EPDM(SYNTHETIC RUBBER) LINED; APPLICATION: WFGD GYPSUM VALVE TO FILTER FEED FLUSHING VALVE 10-60HTN82AA101; GRADE: LV2; SPECIFICATION: LEAKAGE CLASS: CLASS VI; ANSI FCI 70-2 AND IEC60534-4; SUPPL P/N: SGM10.1-F10/DN150; VALVE INSTALLED WITH HORIZONTAL STEM; SEALING SEAT/PLUG: SSTSO CS; RULES FOR SEALING: DRILLING TEMPERATURE AS PER PN16 EN1092-	EA	2		

	1; FULLY EPDM(SYNTHETIC RUBBER) LINED; PROTECTION: IP55				
44	VALVE, BUTTERFLY: TYPE: LUG; VALVE SIZE: 250 MM; DESIGN RATING: 16 BAR; TEMPERATURE RATING: -20 TO 20 DEG C; CONNECTION: FLANGE PN 10; BODY MATERIAL: SPHERIODAL GRAPHITE CI JS1030 (3G); FACE TO FACE LENGTH: 68 MM; OPERATED: MR-50-MARINE; SOFTGOODS: SHAFT: SS 1.4029 (6K); DISC: SPHERIODAL GRAPHITE CAST IRON JS1030 WITH HARD RUBBER COATING (3P); APPLICATION: RAPID DRAIN TANK DRAIN; SUPPL P/N: 16DN250.T4.PN10.3G6K3PXA-MR-50-MARINE; WITH RAISED FACE-T4; LINER-EPDM XA (XA); ISORIA	EA	3		
45	MODULE: TYPE: CANIF-00 POWER SUPPLY CARD; INPUT: 400 V; OUTPUT: 230 V; POWER SOURCE: 24 V; SUPPL P/N: 5911080000_DT320876_10KVA	EA	9		
46	MODULE: TYPE: CUX BOARDS; POWER SOURCE: 24 VDC; APPLICATION: CHLORIDE UPS 10 KVA; SUPPL P/N: 6911100000_DT320876_10KVA	EA	7		
47	CONVERTER: TYPE: ANALOG; INPUT: 0-5 VDC 0-20 MA; OUTPUT: 0-10 VDC 4-20 MA; APPLICATION: BARRING GEAR; REFERENCE NO: 6644207; SPRING CLAMP TERMINALS; 24VDC +-15 PERCENT OPERATING VOLTAGE; 50MA OPERATING CURRENT; 25HZ INPUT FRREQUENCY; 4002 OUTPUT LOAD; 0.5% TOLERANCE; TEMPERATURE RANGE -25 TO 50 DEG C; DIN RAIL MOUNTABLE; DIMENSIONS WD 12.4 X HT 90 X DP 65MM; TEST ISOLATION VOLTAGE 0.75KV	EA	12		
48	MODULE: TYPE: SPECIAL I/O MODULE HDD17; INPUT: 24-30 V; POWER SOURCE: 24-30 V; APPLICATION: BOILER FLUE GAS CLEANING; COMMERCIAL SIZE: WD 130 X LG 238 X HT 90 MM; SUPPL P/N: RM-X5.35/HDD17; I/O MODULE (TWO WHITE ELECTRONIC CASINGS) - 1X RM-X05.32, 1XRM-I/O BOX RM-X05.32 COMES WITH 1XM25 BLIND; 4XM20 GLAND; 1XPRESSURE SENSOR CONNECTIONS RM-I/O - BOX 1XVENTING ELEMENT, 4XM25 GLAND TOTAL LENGTH FOR TWO BOXES - 501MM I/O BOX TO BE CONFIGURED FOR CELL HDD17: BUS ADDRESS 8 ALL PCB MALE CONNECTORS TO BE INCLUDED; I/O BOX TO INCLUDE PRESSURE TRANSMITTER (OEM	EA	5		

	511.930003141 10 BAR); I/O BOX LABELLED WITH BUS ADDRESS AND CELL ADDRESS; I/O MODULE; COMES AS DUAL BOX - WHITE IN COLOUR REVIEW THE BUS ADDRESS AND CELL LABEL; IP66, RS-485; DIMENSIONS: WD 130 X LG 238 X HT 90 MILLIMETER				
49	SWITCH, PROXIMITY: POTENTIAL: 24 VDC; SUPPL P/N: 330105-02-12-10-02-00; PROBE, SIZE 8MM, MATERIAL SS, 1130MM CABLE LENGTH, 3300XL, FOR USE WITH KEYPHASOR	EA	12		
50	SWITCH, PROXIMITY: TYPE: INDUCTIVE SENSOR; SUPPL P/N: NCN4-12GM40-Z0	EA	6		
51	PROBE: TYPE: VIBRATION; DIAMETER: 8 MM; RATING: 0-24 V; CABLE LENGTH: 1 M; MATERIAL: STEEL; SUPPL P/N: 330105-02-12-10-02-05; REVERSE MOUNT, TO MEASURE RADIAL AS WELL AS KEYPHASOR, AISI 4140	EA	19		
52	MODULE, POWER SUPPLY: OUTPUT: 24 VDC; SUPPL P/N: 6EP1334-2BAOO; SITOP PSU100S/1AC/24VDC/10A; TYPE: POWER SUPPLY 1-PHASE AC; INPUT: 120/230 VOLT ALTERNATING CURRENT	EA	3		
53	TRANSDUCER: TYPE: PROXIMITOR; INPUT: -20 TO -1 V; OUTPUT: -4 TO 20 MA; POWER SOURCE: -17.5 TO -26 VDC; APPLICATION: VIBRATION MONITORING; SPECIFICATION: CSA, ATEX, IECEX; SUPPL P/N: 330180-51-ZA; 3300 XL 8 MM	EA	6		
54	SENSOR, VIBRATION: FREQUENCY RESPONSE: 2 HZ-1 KHZ; OPERATING TEMPERATURE: -25 TO 90 DEG C; OUTPUT: 4-20 MA DC; POTENTIAL: 12-32 VDC; CONNECTION: DCS; MOUNT: BOLTED; DIMENSIONS: DIA 28 MM X LG 5.7 M; ENCLOSURE: IP67; VELOCITY TRANSDUCER WITH DC OUTPUT FOR CONTINUOUS VIBRATION; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	3		
55	VALVE, BALL: VALVE SIZE: DN 150; DESIGN RATING: 12 BAR; TEMPERATURE RATING: 50 DEG C; CONNECTION: FLANGE; BODY MATERIAL: 1.4408 SST/CF3M SST; FACE TO FACE LENGTH: 150 MM; OPERATED: ACTUATOR/ELECTRICAL; APPLICATION: RECLAIMING WATER	EA	2		

	TANK; TYPE: LEVEL CONTROL; REFERENCE NO: DN150V150; FLANGE ACCORDING TO PN10/16 RF FLG.				
56	VALVE, BALL: VALVE SIZE: DN 150; DESIGN RATING: 12 BAR; TEMPERATURE RATING: 50 DEG C; CONNECTION: FLANGE; BODY MATERIAL: 1.4408 SST/CF3M SST; FACE TO FACE LENGTH: 200 MM; OPERATED: ACTUATOR/ELECTRICAL; APPLICATION: MAKE UP WATER MIST ELIMINATOR TANK; TYPE: LEVEL CONTROL; REFERENCE NO: DN150V200; FLANGE ACCORDING TO	EA	5		
57	GEARBOX: TYPE: BEVEL HELICAL; RATIO: 33.88:1; SPEED: 1455/43 RPM; POWER: 30 KW; SHAFT SIZE: 110 MM; APPLICATION: AERATOR; ROTATION DIRECTION: CLOCK/ANTI CLOCKWISE; MODEL NO: ZR168K2S200L4-W; REFERENCE NO: JHK0908-3001588046/3; MOUNTING: V1-1A; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	4		
58	ENCODER, MOTOR: TYPE: ROTARY; POTENTIAL: 10 TO 30 V; SHAFT: 25 MM; FREQUENCY RANGE: 1000 HZ; MOUNT: MAGNET; CURRENT: 70 MA; POWER: 1.68 W; OEM P/N: PPE-1000-E3-Q-XHD-M	EA	18		
59	ANALYZER, OXYGEN: TYPE: LIQUID CRYSTAL DISPLAY; DIMENSIONS: LG 91.44 M; POWER SUPPLY: 240 VDC; ANALYSIS CELL TYPE: FLUE GAS DUCT MEASUREMENT; STANDARD: WDG-1200/INSITU	EA	20		
60	THERMOMETER, DIAL: STEM LENGTH: 160 MM; DIAL SIZE: 100 MM; CONNECTION LOCATION: ADJUSTABLE; CONNECTION: 1/2 IN-BSP; MATERIAL: SS GR 316; CAPILLARY LENGTH: 1.5 M; SPECIFICATION: K1V; SUPPL P/N: K1V731460; RANGE: 0-120 DEGREE CENTIGRADE	EA	2		
61	TRANSMITTER, DIFFERENTIAL PRESSURE: RANGE: 0-450 M3/HR; OUTPUT: 4-20 MA; WORKING PRESSURE: 21 BAR; ELECTRICAL CONNECTION: M20; APPLICATION: BFP INTERMEDIATE FLOW; MOUNT:	EA	14		

	BRACKET; ENCLOSURE: IP67; MANUF P/N: FKCW35; CONNECTION: 1/2 IN-NPT; SUPPLY: 10.5V-45VDC				

Total of the Prices

C3: Scope of Work

C3.1 Goods Information

Works Information

Provision of Supply and Delivery of Spares for Replenishment on a twelve (12) months period for stock replenishment with Technical Specification in Table 1 listed above.

1. Description of the *goods*

Description of the work

The work is to Supply and Deliver spares for Kusile Power Station in accordance with Spares technical specification on table 1.

Documentation

The following are the *Supplier*'s requirements:

a) The Supplier will supply any additional information such as brochure, general arrangement drawing, certificates, detailed specification, data sheet, Settings Document for programmable electronic cards etc. Check sheets or drawings for quality inspections.

b) The Supplier provides the Employer with additional spares information if so, required by the end-user

c) The supplier shall supply the preservation, storage, and handling procedures, where applicable.
d) The Supplier must ensure that all components supplied must be individually packed in such a way as to protect the parts during transport and storage. The packaging must also include the necessary labels to identify the items.

e) The spare must be to the exact same specification as installed in the plant and specified on this scope of work document. Notwithstanding the stipulated condition that the Supplier is responsible for verifying the correctness of the spare's information provided by the Employer in relation to the existing installed spare. This may include the Supplier consulting the original supplier of the spare to ensure correctness of information provided by the Employer.

f) The Supplier will ensure proper handling of the spares (from procurement of equipment, storage, and transportation).

g) The Employer may make clarification sessions available to either prospective Supplier/s to further assist the prospective Supplier's to meet the requirements of the work to be performed by the Supplier.

Spares Identification

The spares to be procured under this SOW shall be identifiable or marked by means of the following;

a) Eskom SAP Material number (as is used in the Power Station).
b) Part description.
c) OEM and/or OEM part number.

Information to be provided to supplier

The Supplier will be provided with SOW document for execution, Purchase Order for the required stock items will be generated as the need arises.

Spares Management

The Purchaser may request the Supplier to provide accurate description of all spare parts included in the spares list.

Equipment Required

The Supplier and his sub-suppliers must possess the tools and equipment to satisfy the requirements for the scope.

Purchaser's design

Lists all the spares to be procured under this SOW. This list corresponds to the provided electronic copy of the DCF's that contain more information about the required spares.

Each spare is identifiable by means of an Eskom SAP Material number (as is used in the Power Station), part description, OEM and/or OEM part number.

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

N/A

Obsolescence

The supplier shall inform the Employer immediately where spares are found to be obsolete, the supplier shall provide equivalent technical datasheets for approval by the end-user before initiating any procurement. No equivalent spares shall be accepted upon delivery if prior consent was not received from Eskom Power Station Engineering.

Acceptance of spares

a) No incorrect, damaged, or faulty spares will be accepted by Eskom

b) All the spares will be inspected and accepted by Engineering and/or OEM Technician before payment could be processed.

c) Technical Material Datasheets information must be supplied and must meet an acceptable level.

d) The Supplier must ensure that the supply and preservation of spares is done in compliance with preservation specifications and good engineering practice.

e) The Supplier must deliver all spares on a pallet for ease of storing at stores warehouse.

f) Upon delivery of the goods at the Eskom stores, an inspection of goods and the receipt must be conducted by the end-user within 7 working days after delivery.

g) The Supplier must supply the Purchaser with warrantee certificates, test certificates and the complete data book of spares at the time of delivery which shall be uploaded into the SAP system Goods Receipt document as per Work Instruction, Receive Materials - 240-54820279.

h) The Supplier must deliver the goods as per the agreed to delivery times.

i) The Supplier to provide technical datasheets as a minimum, where applicable.

Operating manuals and maintenance schedules

1. **Operating Manuals**: Detailed instructions on the operation of the equipment, including safety guidelines, troubleshooting steps, and any other relevant information.
2. **Maintenance Schedules**: Comprehensive schedules outlining routine maintenance tasks, recommended intervals, and any specific procedures required to ensure optimal performance and longevity of the equipment.

NB: Ensure that these documents are up-to-date and include any recent updates or revisions.

Work to be done by the Delivery Date

Packaging

1.All supplied spares shall be packaged in such a manner that they will be transported and stored without damage. This includes preventing damage due to moisture ingress, dust, and foreign objects. All spares shall be packaged and placed on a pallet crate for ease of handling.

2. Where possible, packaging to be such that procured spares can be positively identified through the packaging. Where this is not possible, the packaging to be such that it allows opening and closing of packaging and still maintain the packaging integrity thereafter.

3. Different spare types shall be packaged separately such that each spare type can be stored separately. Packaging shall be such that the spare can be identified without opening the packaging. Packaging shall be of material that will not be damaged, to an extent possible, by harsh weather conditions during transportation. If that is not possible, then the packaging shall be protected against such conditions.

4. Delivery packaging shall include as a minimum the following details:

a) Purchase Order Number
b) Part Description
c) Part number
d) Eskom SAP Material number
e) Drawing number, where applicable
f) Physical address of Kusile Power Station and the Supplier
g) Contact details of the Supplier
h) Delivery notes number

Marking the *goods*

Material to be clearly marked, labelled, and packed according to the required specifications.

Cooperating with Others

The Supplier shall comply to the access requirement as stated or prescribed by the station security standards.

2. Specifications

Title	Date or revision	Tick if publicly available
General Specifications:		
Health and Safety requirements		
Environmental requirements		
Technical specifications:		

3. Constraints on how the *Supplier* Provides the Goods

Supplier to adhere to Kusile site regulations and safety requirements.

3.1 Subcontracting

Supplier must seek Supply Manager's approval before appointing any subcontractor

3.2 Use of standard forms

Both parties shall utilize standard NEC SCC forms for all formal communications.

3.3 Invoicing and payment

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

_____

The *Supplier* includes the following information on each tax invoice:

- Name and address of the *Supplier*
- The contract number and title;
- *Supplier*'s VAT registration number;
- The *Purchaser*'s VAT registration number which is _____;
- The total of
  - The Price for each lump sum item in the Price Schedule or Batch Order which the *Supplier* has completed;
  - Where a quantity is stated for an item in the Price Schedule or Batch Order, an amount calculated by multiplying the quantity which the *Supplier* has completed by the rate,
- Other amounts to be paid to the *Supplier*;
- Less amounts to be paid by or retained from the *Supplier*;
- The invoiced amount - excluding VAT, the VAT and including VAT;
- (add other as required)

3.4 Records of Defined Cost

Shall be provided to *Supply Manager* in hard copy or electronically.

3.5 BBBEE and preferencing scheme

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

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.

The *Supplier* is required to submit an updated verification certificate and necessary supporting documentation confirming the change in his B-BBEE status to the *Purchaser* within thirty days of the notification or as otherwise instructed by the *Purchaser*.

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.

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 the same as for Reason 3 identified in clause 90.3.

3.6 Cataloguing requirements by the *Supplier*

Not Applicable

4. Requirements for the programme

Not Applicable

5. Services and other things provided by the *Purchaser*

The Purchaser will unload the material items upon receiving them.

Item	Date by which it will be provided

6. Supply requirements

Documentation control

- Each instruction, test certificate, acceptance, notification, reply and other communication which this contract requires is to be communicated in a form which can be read, copied and recorded.
- Writing is in the Language of this contract.
- All reports to be discussed, compiled and handed over to Eskom.
- All method statements to be discussed compiled and handed over to Eskom where applicable.
- All communications, Certificates, Method Statements must be printed and filed in the Purchaser's Data file

Health and safety risk management

The *Supplier* shall comply with the Occupational Health and Safety Act and relevant regulations, Eskom Contractor Health and Safety Requirements, Eskom Lifesaving rules, National Road Traffic Act and Eskom Vehicle Safety Specifications. The supplier shall submit its internal offloading safe-work procedures to the client prior contract awarding. It is also necessary for the supplier to be in Good Standing with COIDA

The *Supplier* shall comply with the health and safety requirements [stated here or contained in Annexure _____ to this Goods Information].

Environmental constraints and management

The *Supplier* shall comply with the environmental regulations as well as the following:

- Contractor to be familiarised with Environmental Statement of Commitment.
- Contractor shall report all incidents or risks whilst on site to the Eskom Project leader who will inform the environmental department.

Quality

To ensure compliance to Quality Management System requirements, the following requirements shall be adhered to:

- 240-68099512 Form A : The tenderer must complete and sign this form to acknowledge and accept Eskom Supplier Quality Requirements as per QM 58 Specification and ISO 9001 Standard
- Category 3 - Quality Assessment Criteria : Stipulated documented information to be provided for evaluation purposes
- QM 58_240-105658000 – Supplier Quality Management Specifications
- Documented information that permits the Supplier to provide highest level of quality assurance to confidentially state that the method used on the product are accurate, documented and validated.
- Documented information which allows the Supplier to legally transport hazardous goods
- Documented information on determining the knowledge, skill and competency required for the achieved conformity of product/ service (Driver, handling of hazardous goods…)

Batch Order

Batch Order form for use when the Contract Data states that, in terms of clause 23, the *Purchaser* requires the *Supplier* to supply the *goods* in batches.

Contract number **[●]**

Batch Order No. **[●]** Date

To: **[●]**.....
..... (*Supplier*)

I instruct you to supply the following *goods* selected from the Price Schedule:

Item no.	Description	Unit	Quantity	Rate	Price

Total of the Prices for the Batch Order

The start date is **[●]**

The *delivery date* is **[●]**

Signed: Name (in print)

(for *Purchaser*)