NEC3 Supply Contract (SC3)

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

and **(Reg No. _____)**

for **SUPPLY, AND REFURBISHMENT OF DIFFERENT TYPES OF GEARBOXES AT MAJUBA POWER STATIONS**

Contents:		No of pages
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Enquiry No.

PART C1: AGREEMENTS & CONTRACT DATA

Contents: **No of pages**

C1.1 Form of Offer and Acceptance [●]

C1.2a Contract Data provided by the *Purchaser* [●]

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 refurbishment of different types of gearboxes at Majuba Power Stations

The tenderer, identified in the Offer signature block, has 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 contract**
	Value Added Tax @ 15% is	**Rate based contract**
	The offered total of the amount due inclusive of VAT is[1]	**Rate based contract**
	(in words) **Rate based contract**	

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

Note:

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

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

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

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

	For the tenderer:	**For the Purchaser**
Signature		
Name		
Capacity		
On behalf of	*(Insert name and address of organisation)*	**Eskom Holdings SOC Ltd, Megawatt Park, Maxwell Drive, Sandton, Johannesburg, 2199**
Name & signature of witness		
Date		

C1.2 SC3 Contract Data

Part one - Data provided by the *Purchaser*

1. Please read the relevant clauses in the conditions of contract before you enter data. The number of the clause which requires the data is shown in the left-hand column for each statement however other clauses may also use the same data.

2. Some SC3 options are always selected by Eskom Holdings SOC Ltd. The remaining SC3 options are identified by shading in the left-hand column. In the event that the option is not required select and delete the whole row. Where the following symbol is used "**[●]" -** data is required to be inserted relevant to the specific option selected.]

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

Clause	Statement	Data
1	**General**	
	The *conditions of contract* 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]	
10.1	The *Purchaser* 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**
10.1	The *Supply Manager* is (name):	**Johannes Zondi**
	Address	**Majuba Power Station Private Bag X 9001 Volksrust**
	Tel	**017 612 6773**
	Fax	
	e-mail	**TshabaNn@eskom.co.za**

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

11.2(13)	The *goods* are	**SUPPLY OF DIFFERENT TYPES OF GEARBOXES AT MAJUBA POWER STATIONS**
11.2(13)	The *services* are	**REFURBISHMENT OF DIFFERENT TYPES OF GEARBOXES AT MAJUBA POWER STATIONS**
11.2(14)	The following matters will be included in the Risk Register	**1. Supplier delays: Late deliveries by Supplier.** **2. Price fluctuations.** **3. Poor quality.** **4. Non-compliance to specifications** **5. Compliance to safety e.g. roadworthiness of Supplier's vehicles, driver competency.** **6. Guarantees.** **7. Incorrect packaging for offloading and transport.** **8. Offloading delays at stores.** **9. The *Purchaser* may request weekend delivery of items in the event of an emergency.**
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 *law of the contract* is the law of	**the Republic of South Africa**
13.1	The *language of this contract* is	**English**
13.3	The *period for reply* is	**Five (5) Working Days**
2	**The *Supplier's* main responsibilities**	**Data required by this section of the core clauses is provided by the *Supplier* in Part 2 and terms in italics used in this section are identified elsewhere in this Contract Data.**
3	**Time**	
30.1	The *starting date* is.	**1 November 2025 for a period of 60 Months**

30.1	The *delivery date* of the *goods* and *service*s is:	***goods and services***		***delivery date***
		1	**As per Purchase Order**	**As per agreed lead time after receiving Purchase Order (PO)**
30.2	The *Supplier* does not bring the *goods* to the Delivery Place more than one week before the Delivery Date.	**[no data required]**		
31.1	The *Supplier* is to submit a first programme for acceptance within	**2 weeks of the Contract Date.**		
32.2	The *Supplier* submits revised programmes at intervals no longer than	**1 weeks.**		

4	**Testing and defects**	
42	The *defects date* is	**1 weeks after Delivery.**
43.2	The *defect correction period* is	**[●] weeks**
	except that the *defect correction period* for	**[●] is [●] weeks**
	and the *defect correction period* for	**[●] is [●] weeks**
42.2	The *defects access period* is	**[●] days**
	except that the *defect access period* for	**[●] is [●]**
	and the *defect access period* for	**[●] is [●]**
5	**Payment**	
50.1	The *assessment interval* is	**between the 25 day of each successive month.**
51.1	The *currency of this contract* is the	**South African Rand**
51.2	The period within which payments are made is	**4 weeks.**
51.4	The *interest rate* is	**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** **(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 *mutatis mutandis* every 6 months thereafter and as certified, in the event of any dispute, by any manager employed in the foreign exchange department of The Standard Bank of South Africa Limited, whose appointment it shall not be necessary to prove.**
6	**Compensation events**	**There is no reference to Contract Data in this section of the core clauses and terms in italics used in this section are identified elsewhere in this Contract Data.**
7	**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 *Purchaser's* risks	**1. [●]** **2. [●]** **3. [●]**
88.1	The *Supplier's* liability to the *Purchaser* 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 *Supplier's* liability to the *Purchaser* for loss of or damage to the *Purchaser's* property is limited to	**(1) for the *Purchaser's* existing and surrounding property in the care, custody and control of the *Supplier* the amount of the deductible (first amount payable) relevant to the event** **and** **(2) for all other existing *Purchaser's* property the applicable deductible as at contract date**
88.3	The *Supplier's* liability for Defects due to his design which are not notified before the last *defects date* is limited to:	**R[●]** **[This is a commercial decision, but consider using the total of the Prices. Delete this note after inserting a Rand amount]**
88.4	The *Supplier's* total liability to the *Purchaser*, for all matters arising under or in connection with this contract, other than the excluded matters, is limited to	**R[●]** **[This is a commercial decision, but consider using at least the total of the Prices. Delete this note after inserting the Rand amount]**
88.5	The *end of liability date* is	**[●] years after Delivery of the whole of the *goods* and *service*s.**
9	**Termination and dispute resolution**	
94.1	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).**
	Address	**[●]**
	Tel No.	**[●]**
	Fax No.	**[●]**
	e-mail	**[●]**
94.2(3)	The *Adjudicator nominating body* 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 *tribunal* is:	**arbitration**
94.4(5)	The *arbitration procedure* 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 *base date* for indices is **[●].**

The proportions used to calculate the Price Adjustment Factor are:

Index	Proportion	Description
1	0.50	Labour
2	0.30	Material
3	0.05	Transport
4	0.15	Non-Adjustable(Minimum)
	1.00	Total

Mechanical Engineering-SEIFSA Table G-1-Engineering input price indices

Labour- SEIFSA Table C3(A) Actual labour cost-All hourly paid employees.

Road Freight- SEIFSA Table L1(A)

Total

Index	Proportion	Description

X2 Changes in the law

X2.1 A change in the law of **[●] is a compensation event if it occurs after the Contract Date**

X7 Delay damages

X7.1 Delay damages for Delivery are

Delivery of	**amount per day**
Each batch delivery date	**R500 Delay per agreed lead time.**

X17 Low performance damages

X17.1	The amounts for low performance damages are:	**Amount**	**Performance level**
		R500	**If Safety file is not approved within 1 week.**
		R500	**If Quality Management Systems are not submitted within 2 weeks.**
		R1000	**Not delivering service as per scope.**
		R500	**Deviation from stipulated delivery lead time.**
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 *Supplier* or a third party, such party's employees, agents, or Subcontractors or Subcontractor's employees, or any one or more of all of these parties' relatives or friends,
Coercive Action	means to harm or threaten to harm, directly or indirectly, an Affected Party or the property of an Affected Party, or to otherwise influence or attempt to influence an Affected Party to act unlawfully or illegally,
Collusive Action	means where two or more parties co-operate to achieve an unlawful or illegal purpose, including to influence an Affected Party to act unlawfully or illegally,
Committing Party	means, as the context requires, the *Supplier*, or any member thereof in the case of a joint venture, or its employees, agents, or Subcontractors or the Subcontractor's employees,
Corrupt Action	means the offering, giving, taking, or soliciting, directly or indirectly, of a good or service to unlawfully or illegally influence the actions of an Affected Party,
Fraudulent Action	means any unlawfully or illegally intentional act or omission that misleads, or attempts to mislead, an Affected Party, in order to obtain a financial or other benefit or to avoid an obligation or incurring an obligation,
Obstructive Action	means a Committing Party unlawfully or illegally destroying, falsifying, altering or concealing information or making false statements to materially impede an investigation into allegations of Prohibited Action, and
Prohibited Action	means any one or more of a Coercive Action, Collusive Action Corrupt Action, Fraudulent Action or Obstructive Action.

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

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

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 minimu 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

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 bbreathable 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 ccompliance 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 ooccupational exposure limit.

Parallel Measurements means mmeasurements 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.

Z15.1 The *Purchaser* ensures that the Ambient Air in the area where the *Supplier* will Provide the Services conforms to the acceptable prescribed South African standard for asbestos, as per the regulations published in GNR 155 of 10 February 2002, under the Occupational Health and Safety Act, 1993 (Act 85 of 1993) ("Asbestos Regulations"). The OEL for asbestos is 0.2 regulated asbestos fibres per millilitre of air as a 4-hour TWA, averaged over any continuous period of four hours, and the short term exposure limit of 0.6 regulated asbestos fibres per millilitre of air as a 10-minute TWA, averaged over any 10 minutes, measured in accordance with HSG248 and monitored according to HSG173 and OESSM.

Z15.2 Upon written request by the *Supplier*, the *Purchaser* certifies that these conditions prevail. All measurements and reporting are effected by an independent, competent, and certified occupational hygiene inspection body, i.e. a SANAS accredited and Department of Employment and Labour approved AAIA. The *Supplier* may perform Parallel Measurements and related control measures at the *Supplier*'s expense. For the purposes of compliance the results generated from Parallel Measurements are evaluated only against South African statutory limits as detailed in clause Z15.1. Control measures conform to the requirements stipulated in the AAIA-approved asbestos work plan.

Z15.3 The *Purchaser* manages asbestos and ACM according to the Standard.

Z15.4 In the event that any asbestos is identified while Providing the Services, a risk assessment is conducted and if so required, with reference to possible exposure to an airborne concentration of above the AL for asbestos, immediate control measures are implemented and relevant air monitoring conducted in order to declare the area safe.

Z15.5 The *Supplier*'s personnel are entitled to stop working and leave the contaminated area forthwith until such time that the area of concern is declared safe by either Compliance Monitoring or an AAIA approved control measure intervention, for example, per the emergency asbestos work plan, if applicable.

Z15.6 The *Supplier* continues to Provide the Services, without additional control measures presented, on presentation of Safe Levels. The contractually agreed dates to Provide the Services, including the Completion Date, are adjusted accordingly. The contractually agreed dates are extended by the notification periods required by regulations 3 and 21 of the Asbestos Regulations.

Z15.7 Any removal and disposal of asbestos, asbestos containing materials and waste, is done by a registered asbestos contractor, instructed by the *Purchaser* at the *Purchaser*'s expense, and conducted in line with South African legislation.

Annexure A: Supply Requirements

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

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

The *Supplier* supplies the *goods* in accordance with INCOTERMS 2010[3] as follows:

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

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

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

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

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

A	The *Supplier*'s obligations	B	The *Purchaser*'s 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	[State the constraints on how the *Supplier* manufactures, prototypes, tests and stores the *goods* including order and timing]	
2. The requirements for transport are	[State the extent to which the *Supplier* transports the *goods* and the mode of transport]	
3. The delivery place is	[State the location where the *goods* are to be placed by the *Supplier,* such as whether it is a dispatch department at the *Supplier*'s premises, the *Purchaser* is to collect or other location the *Purchaser* may require. If the delivery place for the *services* is different to the *goods* state it here]	
4. Actions of the Parties during supply	**Action**	**Party which does it**
	Giving notice of Delivery	
	Checking packing and marking before dispatch	
	Contracting for transport	
	Pay costs of transport	
	Arrange access to delivery place	
	Loading the *goods*	
	Unloading the *goods*	
For international procurement	Undertake export requirements	
	Undertake import requirements	
5. Information to be provided by the *Supplier*	**Title of document**	
	Packing lists for cases and their contents	
	Copy of invoice for the *goods*	
	Delivery Note	
	Test results and maintenance manuals	
For international procurement	Licences, authorisations and other formalities associated with export of the *goods*	
	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 *goods* 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*

[Instructions to the contract compiler: (delete this note before issue to tenderers with an enquiry) Whenever a cell is shaded in the left hand column it denotes this data is optional and would be required in relation to the option selected. In the event that the option is not required select and delete the whole row.]

Notes to a tendering supplier:

1. Please read both the NEC3 Supply Contract (SC3)[4] and the relevant parts of its Guidance Notes (SC3-GN)[5] in order to understand the implications of this Data which the tenderer is required to complete.
2. The number of the clause which requires the data is shown in the left hand column for each statement however other clauses may also use the same data
3. Where a form field like this [ ] appears, data is required to be inserted relevant to the option selected. Click on the form field ***once*** and type in the data. Otherwise complete by hand and in ink.

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

Clause	Statement	Data
10.1	The *Supplier* is (Name): Address Tel No. Fax No.	
11.2(8)	The Goods Information for the *Supplier's* design is in:	
11.2(11)	The tendered total of the Prices is	**R ,** **(in words)**
11.2(12)	The *price schedule* is in:	
11.2(14)	The following matters will be included in the Risk Register	
25.2	The restrictions to access for the *Supply Manager* and Others to work being done for this contract are	
30.1	The *delivery date* of the *goods* and *service*s is:	***goods and services*** / ***delivery date*** **1** **[•]** **[•]** **2** **[•]** **[•]** **3** **[•]** **[•]**

[4] Either April 2013 or December 2009 Edition as stated by *Purchaser* in Contract Data part 1.
[5] Available from Engineering Contract Strategies Tel 011 803 3008, Fax 086 539 1902, or www.ecs.co.za

31.1	The programme identified in the Contract Data is contained in:
63.2	The *percentage for overheads and profit* 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 *price schedule*	**[●]**

C2.1 Pricing assumptions

How *goods* and *service*s 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 *price schedule* unless later changed in accordance with this contract.
Assessing the amount due	50.2	The amount due is • the Price for each lump sum item in the Price Schedule which the *Supplier* has completed, • where a quantity is stated for an item in the Price Schedule, an amount calculated by multiplying the quantity which the *Supplier* has completed by the rate, • plus other amounts to be paid to the *Supplier*, • less amounts to be paid by or retained from the *Supplier*. Any tax which the law requires the *Purchaser* to pay to the *Supplier* 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 *service*s which can be priced as lump sums or as expected quantities of *goods* and *service*s 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 *service*s 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 nr	Description	Specification	Stock Number	Unit	Quantity	Rate	Price
1	**New: Tippler takeout gearbox**	**ROSS: Reduction gearbox, dual output shaft; Power: 630KW; Input speed: 1490 RPM; Ratio: 22,2:1; Frame size: RC2I500**	**0692491**		1		
1	**Refurbish: Tippler takeout gearbox**	**ROSS: Reduction gearbox, dual output shaft; Power: 630KW; Input speed: 1490 RPM; Ratio: 22,2:1; Frame size: RC2I500**	**0692491**		1		
1.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	1		
1.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	1		
1.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	1		
1.4	Non-destructive testing on components where applicable	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	1		
1.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	1		
1.6	Assess and quality control new component before assembly	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	1		
1.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	1		
1.8	Test run gearbox for at least 8 hours and do second quality control check after assembly	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	1		
1.9	Finish gearbox with paint, name plates and stickers	REPR EQP: FINISH	3000041518	LE	1		

1.10	Fit low speed coupling	REPR EQP: COUPLING	3000023810	LE	1		
1.11	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	1		
1.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE			
1.13	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	1		
1.14	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change including housing machining	3000022880	LE	1		
1.15	Bearing change	REPR BRNG: GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	1		
1.16	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	1		
1.17	Repair Kit	KIT: REPR; GEARBOX; RC2I500	0730957	EA	1		
2	**New: Dumper Falk gearbox**	**GEARBOX: TYPE: REDUCTION; RATIO: 50.15:1; SPEED: 1500/29.9 RPM; POWER: 55 KW; PART NO: FALK 425A,**	**0214615**		**1**		
2	**Refurbish: Dumper Falk gearbox**	**GEARBOX: TYPE: REDUCTION; RATIO: 50.15:1; SPEED: 1500/29.9 RPM; POWER: 55 KW; PART NO: FALK 425A,**	**0214615**		**1**		
2.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	1		
2.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	1		
2.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	1		
2.4	Non-destructive testing on components where applicable	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	1		
2.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	1		
2.6	Assess and quality control	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	1		

	new component before assembly						
2.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	1		
2.8	Test run gearbox for at least 8 hours and do second quality control check after assembly	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	1		
2.9	Finish gearbox with paint, name plates and stickers	REPR EQP: FINISH	3000041518	LE	1		
2.10	Fit low speed coupling	REPR EQP: COUPLING	3000023810	LE	1		
2.11	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	1		
2.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE			
2.13	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	1		
2.14	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change including housing machining	3000022880	LE	1		
2.15	Bearing change	REPR BRNG: GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	1		
2.16	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	1		
2.17	Repair Kit	KIT: REPR; GEAR; BEARINGS, SEALS, ... FALK 425A	0731416	EA	1		
3	**New: Magnet drive D - 60mm (Tippler incl, Bin feed, Reclaim)**	**MOTOR, GEARED: POWER: 7.5 KW; CURRENT: 15 A; OUTPUT SPEED: 130 RPM; RATIO: 11.15:1; POTENTIAL: 380 V; MOTOR SPEED: 1450 RPM; MOUNTING: BOLTED; ENCLOSURE RATING: IP55;**	**0223082**		**1**		

		SHAFT: 60 MM; POLES: 4; MAGNETIC SEPERATOR; HOLLOW OUTPUT; SHAFT: 60MM WITH STANDARD KEY WAY; FLENDER BRAND; 1.7L; DELTA CONNECTION; 50 HZ; THE UNIT MUST BE DELIVERED WITH A STANDARD TORQUE ARM; REFERENCE NO: CAD88-M132M4; REFERENCE NO: MTG: H-01-A-2A; PART NO: 0609-M24094					
3	**Refurbish: Magnet drive D - 60mm (Tippler incl, Bin feed, Reclaim)**	**MOTOR, GEARED: POWER: 7.5 KW; CURRENT: 15 A; OUTPUT SPEED: 130 RPM; RATIO: 11.15:1; POTENTIAL: 380 V; MOTOR SPEED: 1450 RPM; MOUNTING: BOLTED; ENCLOSURE RATING: IP55; SHAFT: 60 MM; POLES: 4; MAGNETIC SEPERATOR; HOLLOW OUTPUT; SHAFT: 60MM WITH STANDARD KEY WAY; FLENDER BRAND; 1.7L; DELTA CONNECTION; 50 HZ; THE UNIT MUST BE DELIVERED WITH A STANDARD TORQUE ARM; REFERENCE NO: CAD88-M132M4; REFERENCE NO: MTG: H-01-A-2A; PART NO: 0609-M24094**	**0223082**		**6**		
3.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	6		
3.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	6		
3.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	6		
3.4	Non-destructive testing on components where applicable	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	6		
3.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	6		
3.6	Assess and quality control new component before assembly	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	6		
3.7	Assemble gearbox and quality check	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	6		

	clearances and gear contact						
3.8	Test run gearbox for at least 8 hours and do second quality control check after assembly	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	6		
3.9	Finish gearbox with paint, name plates and stickers	REPR EQP: FINISH	3000041518	LE	6		
3.10	Fit low speed coupling	REPR EQP: COUPLING	3000023810	LE	6		
3.11	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	6		
3.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	6		
3.13	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	6		
3.14	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change including housing machining	3000022880	LE	6		
3.15	Bearing change	REPR BRNG: GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	6		
3.16	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	6		
3.17	Repair Kit	KIT: REPR; GEARBOX; BEARINGS, SEALS, ...	0730880	EA	6		
4	**New: Bin feed gearbox**	**GEARBOX: TYPE: SPEED REDUCER; RATIO: 16.794:1; SPEED: 1487/8.54 RPM; POWER: 650 KW; BEW GEAR; REFERENCE NO: K3C450-11**	**0177059**		**1**		
4	**Refurbish: Bin feed gearbox**	**GEARBOX: TYPE: SPEED REDUCER; RATIO: 16.794:1; SPEED: 1487/8.54 RPM; POWER: 650 KW; BEW GEAR; REFERENCE NO: K3C450-11**	**0177059**		**1**		
4.1	Strip gearbox	STRIP AND QUOTE:	3000020295	LE	1		

	completely	EQUIPMENT: ASSEMBLY					
4.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	1		
4.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	1		
4.4	Non-destructive testing on components where applicable	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	1		
4.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	1		
4.6	Assess and quality control new component before assembly	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	1		
4.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	1		
4.8	Test run gearbox for at least 8 hours and do second quality control check after assembly	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	1		
4.9	Finish gearbox with paint, name plates and stickers	REPR EQP: FINISH	3000041518	LE	1		
4.10	Fit low speed coupling	REPR EQP: COUPLING	3000023810	LE	1		
4.11	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	1		
4.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	1		
4.13	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	1		
4.14	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change including housing machining	3000022880	LE	1		
4.15	Bearing change	REPR BRNG: GEARBOX	3000022881	LE	1		

		ROLLER BEARING: Bearing and seal change including housing machining					
4.16	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	1		
4.17	Repair Kit	KIT: REPR; GEARBOX;K3C450-11	0731009	EA	1		
5	**New: O/L link & Stacker link/O/S link**	**ROSS: Reduction gearbox; Power:200KW; Input speed:1485RPM; Ratio:20,59:1; Frame size RC2I320;**	**0681347**		**1**		
5	**Refurbish: O/L link & Stacker link/O/S link**	**ROSS: Reduction gearbox; Power:200KW; Input speed:1485RPM; Ratio:20,59:1; Frame size RC2I320;**	**0681347**		**1**		
5.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	1		
5.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	1		
5.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	1		
5.4	Non-destructive testing on components where applicable	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	1		
5.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	1		
5.6	Assess and quality control new component before assembly	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	1		
5.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	1		
5.8	Test run gearbox for at least 8 hours and do second quality control check after assembly	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	1		
5.9	Finish gearbox with paint, name plates and stickers	REPR EQP: FINISH	3000041518	LE	1		
5.10	Fit low speed	REPR EQP: COUPLING	3000023810	LE	1		

	coupling						
5.11	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	1		
5.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	1		
5.13	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	1		
5.14	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change including housing machining	3000022880	LE	1		
5.15	Bearing change	REPR BRNG: GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	1		
5.16	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	1		
5.17	Repair Kit	KIT: REPR; GEARBOX; BEARINGS, SEALS, ...	0730882	EA	1		
6	**New: Tripper car long travel**	**MOTOR, GEARED: MOTOR TYPE: LONG TRAVEL; TYPE LONG TRAVEL; MUST BE SUPPLIED WITH THE FOLLOWING 1 X BEVEL GEARED MOTOR PART NO BK40 - 64 U / D09 LA 4 - S / Z 008 B9 SP; 1 X DRIVE SHAFT PART NO STAC 124 569. WS; 2 X ROD ENDS PART NO GIR 30.DO. 2RS; 1 X HOUSING STAC 22214.BSE; 1 X HOUSING STAC 22214.BSF; 1 X THREADED BAR M30X300X2MM; 2 X BEARING 22214.RHRW33C3; PART NO: BK40-64V/D09LA4-S/2008B9SP,**	**0215422**		**1**		
6	**Refurbish: Tripper car long travel**	**MOTOR, GEARED: MOTOR TYPE: LONG TRAVEL; TYPE LONG TRAVEL; MUST BE SUPPLIED WITH THE FOLLOWING 1 X BEVEL GEARED MOTOR PART NO BK40 - 64 U / D09 LA 4 - S / Z 008 B9 SP; 1 X DRIVE SHAFT PART NO STAC 124 569. WS; 2 X ROD ENDS PART NO GIR 30.DO. 2RS; 1 X HOUSING**	**0215422**		**16**		

		STAC 22214.BSE; 1 X HOUSING STAC 22214.BSF; 1 X THREADED BAR M30X300X2MM; 2 X BEARING 22214.RHRW33C3; PART NO: BK40-64V/D09LA4-S/2008B9SP,					
6.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	16		
6.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	16		
6.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	16		
6.4	Non-destructive testing on components where applicable	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	16		
6.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	16		
6.6	Assess and quality control new component before assembly	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	16		
6.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	16		
6.8	Test run gearbox for at least 8 hours and do second quality control check after assembly	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	16		
6.9	Finish gearbox with paint, name plates and stickers	REPR EQP: FINISH	3000041518	LE	16		
6.10	Fit low speed coupling	REPR EQP: COUPLING	3000023810	LE	16		
6.11	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	16		
6.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	16		
6.13	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals,	3000023811	LE	16		

		gears, shafts and housing machining					
6.14	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change including housing machining	3000022880	LE	16		
6.15	Bearing change	REPR BRNG: GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	16		
6.16	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	16		
6.17	Repair Kit	KIT: REPR; GEARBOX; BEARINGS, SEALS, ... BK40-64V	0731414	EA	16		
7	**New: MV cable reel gearbox**	**Flender HIMMEL; KA 160; A224023/01; I:80.9**	**Nonstock**	EA	1		
7	**Refurbish: MV cable reel gearbox**	**Flender HIMMEL; KA 160; A224023/01; I:80.9**	**Nonstock**	EA	1		
7.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	1		
7.2	Clean all components	CLEAN EQP:HIGH PRESSURE MACHINE	3000030799	LE	1		
7.3	Engineering assessment of all components	INSP EQP MECH:MECHANISM DEVICE;PHYSICAL	3000019025	LE	1		
7.4	Non-destructive testing on components where applicable	TEST EQP:VARIOUS NDT EQUIPMENT;ANNUALLY	3000020498	LE	1		
7.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	1		
7.6	Assess and quality control new component before assembly	INSP EQP:QUALITY CONTROL;ASSESMENT	3000020104	LE	1		
7.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP:COMPLETE GEARBOX UNIT	3000022896	LE	1		
7.8	Test run gearbox for at least 8 hours and do second quality control check after assembly	TEST EQP MECH:COMPONENTS/SYSTEM	3000019046	LE	1		

7.9	Finish gearbox with paint, name plates and stickers	REPR EQP:FINISH	3000041518	LE	1		
7.10	Fit low speed coupling	REPR EQP:COUPLING	3000023810	LE	1		
7.11	Fit High speed coupling	REPR EQP:COUPLING	3000023810	LE	1		
7.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE			
7.13	Complete rebuild	REPR G/BOX:GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	1		
7.14	Pinion Change	REPR EQP MECH:GEARBOX INPUT LINE: Bearing, seal and high speed pinion change including housing machining	3000022880	LE	1		
7.15	Bearing change	REPR BRNG:GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	1		
7.16	Commissioning	COMMISS EQP:SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	1		
7.17	Repair Kit	KIT:REPR;GEARBOX;BEARINGS, SEALS, ...KA 160 A2	0730879	EA	1		
8	**C&I cable reel gearbox**	**Flender HIMMEL; KA 140X; A224024; I:78.32**	**Nonstock**	EA	1		
8	**C&I cable reel gearbox**	**Flender HIMMEL; KA 140X; A224024; I:78.32**	**Nonstock**	EA	1		
8.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	1		
8.2	Clean all components	CLEAN EQP:HIGH PRESSURE MACHINE	3000030799	LE	1		
8.3	Engineering assessment of all components	INSP EQP MECH:MECHANISM DEVICE;PHYSICAL	3000019025	LE	1		
8.4	Non-destructive testing on components where applicable	TEST EQP:VARIOUS NDT EQUIPMENT;ANNUALLY	3000020498	LE	1		
8.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	1		

8.6	Assess and quality control new component before assembly	INSP EQP:QUALITY CONTROL;ASSESMENT	3000020104	LE	1		
8.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP:COMPLETE GEARBOX UNIT	3000022896	LE	1		
8.8	Test run gearbox for at least 8 hours and do second quality control check after assembly	TEST EQP MECH:COMPONENTS/SYSTEM	3000019046	LE	1		
8.9	Finish gearbox with paint, name plates and stickers	REPR EQP:FINISH	3000041518	LE	1		
8.10	Fit low speed coupling	REPR EQP:COUPLING	3000023810	LE	1		
8.11	Fit High speed coupling	REPR EQP:COUPLING	3000023810	LE	1		
8.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	1		
8.13	Complete rebuild	REPR G/BOX:GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	1		
8.14	Pinion Change	REPR EQP MECH:GEARBOX INPUT LINE: Bearing, seal and high speed pinion change including housing machining	3000022880	LE	1		
8.15	Bearing change	REPR BRNG:GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	1		
8.16	Commissioning	COMMISS EQP:SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	1		
8.17	Repair Kit	KIT:REPR;GEARBOX;KA 140X A224024	0731636	EA	1		

9	**New: Plough gearbox**	**GEARBOX: TYPE: REDUCER; RATIO: 95:1; SPEED: I/P 1475; O/P 15.5 RPM; POWER: 75 KW; SHAFT SIZE: I/P 50 X O/P 239.5 MM; APPLICATION: PLOUGH WHEEL; ROTATION DIRECTION: CLOCKWISE; PART NO: K4V400F;**	**0593151**		**1**		
9	**Refurbish: Plough gearbox**	**GEARBOX: TYPE: REDUCER; RATIO: 95:1; SPEED: I/P 1475; O/P 15.5 RPM; POWER: 75 KW; SHAFT SIZE: I/P 50 X O/P 239.5 MM; APPLICATION: PLOUGH WHEEL; ROTATION DIRECTION: CLOCKWISE; PART NO: K4V400F;**	**0593151**		**4**		
9.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	4		
9.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	4		
9.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	4		
9.4	Non-destructive testing on components where applicable	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	4		
9.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	4		
9.6	Assess and quality control new component before assembly	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	4		
9.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	4		
9.8	Test run gearbox for at least 8 hours and do second quality control check after assembly	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	4		
9.9	Finish gearbox with paint, name plates and stickers	REPR EQP: FINISH	3000041518	LE	4		
9.10	Fit low speed coupling	REPR EQP: COUPLING	3000023810	LE	4		

9.11	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	4		
9.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	4		
9.13	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	4		
9.14	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change including housing machining	3000022880	LE	4		
9.15	Bearing change	REPR BRNG: GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	4		
9.16	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	4		
9.17	Repair Kit	KIT: REPR; GEAR; K4V400F	0731423	EA	4		
10	**New: Plough long travel gearbox**	**MOTOR, GEARED: POWER: 1.1 KW; CURRENT: 2.89 A; OUTPUT SPEED: 4.4 RPM; RATIO: 324.8:1; POTENTIAL: 380 V; MOTOR SPEED: 1390 RPM; MOUNTING: B5; ENCLOSURE RATING: IP55; PHASE: 3; ACCESSORIES: MOTOR; GEARBOX; CONNECTION LOCATION: Y/D; POLES: 4; SERVICE FACTOR: 1.3; PART NO: AG63-12/D/C94-24/BR,**	**0217274**		**1**		
10	**Refurbish: Plough long travel gearbox**	**MOTOR, GEARED: POWER: 1.1 KW; CURRENT: 2.89 A; OUTPUT SPEED: 4.4 RPM; RATIO: 324.8:1; POTENTIAL: 380 V; MOTOR SPEED: 1390 RPM; MOUNTING: B5; ENCLOSURE RATING: IP55; PHASE: 3; ACCESSORIES: MOTOR; GEARBOX; CONNECTION LOCATION: Y/D; POLES: 4; SERVICE FACTOR: 1.3; PART NO: AG63-12/D/C94-24/BR,**	**0217274**		**8**		
10.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	8		

10.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	8		
10.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	8		
10.4	Non-destructive testing on components where applicable	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	8		
10.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	8		
10.6	Assess and quality control new component before assembly	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	8		
10.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	8		
10.8	Test run gearbox for at least 8 hours and do second quality control check after assembly	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	8		
10.9	Finish gearbox with paint, name plates and stickers	REPR EQP: FINISH	3000041518	LE	8		
10.10	Fit low speed coupling	REPR EQP: COUPLING	3000023810	LE	8		
10.11	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	8		
10.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	8		
10.13	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	8		
10.14	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change including housing machining	3000022880	LE	8		
10.15	Bearing change	REPR BRNG: GEARBOX ROLLER BEARING: Bearing and	3000022881	LE	8		

		seal change including housing machining					
10.16	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	8		
10.17	Repair Kit	KIT: REPR; GEARBOX; AG63-12/D/C94-24/BR,	0731428	EA	8		
11	**New: Cross gearbox**	**GEARBOX: TYPE: REDUCTION; RATIO: 13.48:1; SPEED: 1475 RPM; POWER: 45 KW; APPLICATION: CROSS CONVEYOR DRIVE TRAIN; ROTATION DIRECTION: CLOCKWISE; MOUNTING: FOOT; INPUT SHAFT: DIA 60MM; OUTPUT SHAFT: DIA 90MM; DUAL OUTPUT SHAFT FITTED WITH INTERNAL BACKSTOP; OIL SIGHTGLASS; OIL SAMPLING POINT; MOTOR POWER: 45KW; 380V; 1475RPM; FLENDER; PAINT: SKYBLUE; SERIAL NO: 9403-9656; PART NO: K140A (225),**			**1**		
11	**Refurbish: Cross gearbox**	**GEARBOX: TYPE: REDUCTION; RATIO: 13.48:1; SPEED: 1475 RPM; POWER: 45 KW; APPLICATION: CROSS CONVEYOR DRIVE TRAIN; ROTATION DIRECTION: CLOCKWISE; MOUNTING: FOOT; INPUT SHAFT: DIA 60MM; OUTPUT SHAFT: DIA 90MM; DUAL OUTPUT SHAFT FITTED WITH INTERNAL BACKSTOP; OIL SIGHTGLASS; OIL SAMPLING POINT; MOTOR POWER: 45KW; 380V; 1475RPM; FLENDER; PAINT: SKYBLUE; SERIAL NO: 9403-9656; PART NO: K140A (225),**	**0215497**		**3**		
12.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	3		
12.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	3		
12.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	3		
12.4	Non-destructive testing on components where applicable	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	3		
12.5	Quotation	STRIP AND QUOTE:	3000020295	LE	3		

	generation	EQUIPMENT: ASSEMBLY					
12.6	Assess and quality control new component before assembly	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	3		
12.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	3		
12.8	Test run gearbox for at least 8 hours and do second quality control check after assembly	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	3		
12.9	Finish gearbox with paint, name plates and stickers	REPR EQP: FINISH	3000041518	LE	3		
12.10	Fit low speed coupling	REPR EQP: COUPLING	3000023810	LE	3		
12.11	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	3		
9.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	3		
12.13	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	3		
12.14	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change including housing machining	3000022880	LE	3		
12.15	Bearing change	REPR BRNG: GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	3		
12.16	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	3		
12.17	Repair Kit	KIT: REPR; GEARBOX; BEARINGS, SEALS, ... K140A (225),	0731568	EA	3		
13	**New: Cross M/H gearbox**	**ASSEMBLY: TYPE: REDUCER DRIVE; APPLICATION: MOVING**	**0210162**		**1**		

		HEAD DRIVE TRAIN; MATERIAL: STEEL; COMPRISING: GEARBOX; MAGNETIC BRAKE; MOTOR; LENDER GEARBOX; MOTOR 5.5 KW; 380V; BRAKED MOTOR; OUTPUT 13.4 RPM; OUTPUT SHAFT DIA 60 MM; DULE OUTPUT SHAFT FOR BOTH LEFT AND RIGHT HAND SIDE DRIVE; DIRECTION OF ROTATION = REVERSABLE WITH FORWARD DIRECTION WHEN MOTOR ROTATES CLOCKWISE; IP 55; PAINT SPEC = BLUE; PART NO: K108W100LI4-L32,					
13	**Refurbish: Cross M/H gearbox**	**ASSEMBLY: TYPE: REDUCER DRIVE; APPLICATION: MOVING HEAD DRIVE TRAIN; MATERIAL: STEEL; COMPRISING: GEARBOX; MAGNETIC BRAKE; MOTOR; LENDER GEARBOX; MOTOR 5.5 KW; 380V; BRAKED MOTOR; OUTPUT 13.4 RPM; OUTPUT SHAFT DIA 60 MM; DULE OUTPUT SHAFT FOR BOTH LEFT AND RIGHT HAND SIDE DRIVE; DIRECTION OF ROTATION = REVERSABLE WITH FORWARD DIRECTION WHEN MOTOR ROTATES CLOCKWISE; IP 55; PAINT SPEC = BLUE; PART NO: K108W100LI4-L32,**	**0210162**		**6**		
10.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	6		
10.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	6		
10.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	6		
10.4	Non-destructive testing on components where applicable	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	6		
10.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	6		
10.6	Assess and quality control new component before assembly	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	6		

10.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	6		
10.8	Test run gearbox for at least 8 hours and do second quality control check after assembly	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	6		
10.9	Finish gearbox with paint, name plates and stickers	REPR EQP: FINISH	3000041518	LE	6		
10.10	Fit low speed coupling	REPR EQP: COUPLING	3000023810	LE	6		
10.11	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	6		
10.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	6		
10.13	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	6		
10.14	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change including housing machining	3000022880	LE	6		
10.15	Bearing change	REPR BRNG: GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	6		
10.16	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	6		
10.17	Repair Kit	KIT: REPR;GEARBOX; BEARINGS, SEALS, ... K108W100	0731421	EA	6		
14	**New: Boiler incline M/H drive**	**MOTOR,GEARED;POWER: 5.5KW; CURRENT:11.25A; OUTPUT SPEED:40RMP; RATIO:36.44:1; POMTENTIAL:380V; MOTOR SPEED 960RPM; MOUNTING H01-A-1A; ENCLOSURE RATING:IP55; INSULATION CLASS:IP55; OUTPUT SHAFT**	**0692482**		**1**		

		DIAMETER:60MM; THE DRIVE MUST HAVE DUAL OUTPUT SHAFTS PRESERVED FOR LONG TERM STORAGE; REDUCE DRIVE; FLENDER GEARBOX WITH BRAKE; PAINT SPEC:SKY BLUE; MODEL:K108-M132-584; POLES:6					
14	**Refurbish: Boiler incline M/H drive**	**MOTOR,GEARED;POWER: 5.5KW; CURRENT:11.25A; OUTPUT SPEED:40RMP; RATIO:36.44:1; POMTENTIAL:380V; MOTOR SPEED 960RPM; MOUNTING H01-A-1A; ENCLOSURE RATING:IP55; INSULATION CLASS:IP55; OUTPUT SHAFT DIAMETER:60MM; THE DRIVE MUST HAVE DUAL OUTPUT SHAFTS PRESERVED FOR LONG TERM STORAGE; REDUCE DRIVE; FLENDER GEARBOX WITH BRAKE; PAINT SPEC:SKY BLUE; MODEL:K108-M132-584; POLES:6**	**0692482**		**2**		
11.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	2		
11.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	2		
11.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	2		
11.4	Non-destructive testing on components where applicable	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	2		
11.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	2		
11.6	Assess and quality control new component before assembly	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	2		
11.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	2		
11.8	Test run gearbox for at least 8 hours and do second quality	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	2		

	control check after assembly						
11.9	Finish gearbox with paint, name plates and stickers	REPR EQP: FINISH	3000041518	LE	2		
11.10	Fit low speed coupling	REPR EQP: COUPLING	3000023810	LE	2		
11.11	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	2		
11.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	2		
11.13	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	2		
11.14	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change including housing machining	3000022880	LE	2		
11.15	Bearing change	REPR BRNG: GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	2		
11.16	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	2		
11.17	Repair Kit	KIT: REPR; GEARBOX; K108-M132-S84	0731008	EA	2		
15	**New**	**MOTOR, GEARED: POWER: 5.5 KW; CURRENT: 11.25 A; OUTPUT SPEED: 26 RPM; RATIO: 36.44:1; POTENTIAL: 380 V; MOTOR SPEED: 960 RPM; MOUNTING: FOOT; ENCLOSURE RATING: IP55; PHASE: 3; GEARBOX TYPE: FLENDER; DIRECTION: BI-DIRECTIONAL; SHAFT: DIA 60 MM; POLES: 6; MODEL NO: K108-M132-S84; DRIVE MUST HAVE DUAL OUTPUT SHAFTS PRESERVED FOR LONG TERM STORAGE; REDUCE DRIVE; FLENDER GEARBOX WITH BRAKE; PAINT SPEC: SKY BLUE**	**0670309**	**LE**	**1**		
15	**Refurbish**	**MOTOR, GEARED: POWER: 5.5**			**1**		

		KW; CURRENT: 11.25 A; OUTPUT SPEED: 26 RPM; RATIO: 36.44:1; POTENTIAL: 380 V; MOTOR SPEED: 960 RPM; MOUNTING: FOOT; ENCLOSURE RATING: IP55; PHASE: 3; GEARBOX TYPE: FLENDER; DIRECTION: BI-DIRECTIONAL; SHAFT: DIA 60 MM; POLES: 6; MODEL NO: K108-M132-S84; DRIVE MUST HAVE DUAL OUTPUT SHAFTS PRESERVED FOR LONG TERM STORAGE; REDUCE DRIVE; FLENDER GEARBOX WITH BRAKE; PAINT SPEC: SKY BLUE					
12.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	1		
12.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	1		
12.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	1		
12.4	Non-destructive testing on components where applicable	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	1		
12.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	1		
12.6	Assess and quality control new component before assembly	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	1		
12.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	1		
12.8	Test run gearbox for at least 8 hours and do second quality control check after assembly	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	1		
12.9	Finish gearbox with paint, name plates and stickers	REPR EQP: FINISH	3000041518	LE	1		
12.10	Fit low speed coupling	REPR EQP: COUPLING	3000023810	LE	1		

12.11	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	1		
12.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	1		
12.13	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	1		
12.14	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change including housing machining	3000022880	LE	1		
12.15	Bearing change	REPR BRNG: GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	1		
12.16	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	1		
12.17	Repair Kit	KIT: REPR; GEARBOX; K108-M132-S84	0731008	EA	1		
16	**New: Bin link 37 kw**	**GEARBOX: TYPE: REDUCTION; RATIO: 13:48:1; SPEED: 109 RPM; POWER: 37 KW; SHAFT SIZE: 60 X 90 MM; APPLICATION: CONVEYOR DRIVE TRAIN; ROTATION DIRECTION: CLOCKWISE; SHOULD BE FITTED WITH A BACKSTOP DEVICE; MOUNTING B3-A, OIL 11 L; NO KEYWAYS ON OUTPUT SHAFT; BELL HOUSING; OIL SIGHT GLASS; OIL SAMPLING POINT; USED FOR 10ECB1020ECB50; PAINT: SKYBLUE; SHAFT PRESERVED FOR LONG TERM STORAGE; PART NO: KD140-K2-225X,**	**0256310**		**1**		
16	**Refurbish: Bin link 37 kw**	**GEARBOX: TYPE: REDUCTION; RATIO: 13:48:1; SPEED: 109 RPM; POWER: 37 KW; SHAFT SIZE: 60 X 90 MM; APPLICATION: CONVEYOR DRIVE TRAIN; ROTATION DIRECTION: CLOCKWISE; SHOULD BE FITTED WITH A BACKSTOP DEVICE; MOUNTING B3-A, OIL 11 L; NO KEYWAYS ON OUTPUT SHAFT;**			**8**		

		BELL HOUSING; OIL SIGHT GLASS; OIL SAMPLING POINT; USED FOR 10ECB1020ECB50; PAINT: SKYBLUE; SHAFT PRESERVED FOR LONG TERM STORAGE; PART NO: KD140-K2-225X,					
13.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	8		
13.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	8		
13.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	8		
13.4	Non-destructive testing on components where applicable	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	8		
13.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	8		
13.6	Assess and quality control new component before assembly	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	8		
13.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	8		
13.8	Test run gearbox for at least 8 hours and do second quality control check after assembly	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	8		
13.9	Finish gearbox with paint, name plates and stickers	REPR EQP: FINISH	3000041518	LE	8		
13.10	Fit low speed coupling	REPR EQP: COUPLING	3000023810	LE	8		
13.11	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	8		
13.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	8		
13.13	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of	3000023811	LE	8		

		gearbox including bearings, seals, gears, shafts and housing machining					
13.14	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change including housing machining	3000022880	LE	8		
13.15	Bearing change	REPR BRNG: GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	8		
13.16	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	8		
13.17	Repair Kit	KIT: REPR; GEAR; BEARINGS, SEALS, ...	0730881	EA	8		
17	**New: Bin feed 30 kw**	**ASSEMBLY: TYPE: CONVEYOR DRIVE TRAIN; APPLICATION: DRIVING CONVEYOR; ASSEMBLY; RATIO 13:00:1; N2; 112 RPM; MTG B3-B-2A; MTR 30KW; 380V; DELTA CONNECTION; IP55; 4 POLE; FOR 02ECB13AF100 AND 02ECB23AF100; PART NO: K148-K2-200, SUPPLIER: UNKNOWN; PART NO: 0609-M24067,**	**0224092**		**1**		
17	**Refurbish: Bin feed 30 kw**	**ASSEMBLY: TYPE: CONVEYOR DRIVE TRAIN; APPLICATION: DRIVING CONVEYOR; ASSEMBLY; RATIO 13:00:1; N2; 112 RPM; MTG B3-B-2A; MTR 30KW; 380V; DELTA CONNECTION; IP55; 4 POLE; FOR 02ECB13AF100 AND 02ECB23AF100; PART NO: K148-K2-200, SUPPLIER: UNKNOWN; PART NO: 0609-M24067,**	**0224092**		**14**		
14.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	14		
14.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	14		
14.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	14		
14.4	Non-destructive testing on components where applicable	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	14		

14.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	14		
14.6	Assess and quality control new component before assembly	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	14		
14.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	14		
14.8	Test run gearbox for at least 8 hours and do second quality control check after assembly	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	14		
14.9	Finish gearbox with paint, name plates and stickers	REPR EQP: FINISH	3000041518	LE	14		
14.10	Fit low speed coupling	REPR EQP: COUPLING	3000023810	LE	14		
14.11	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	14		
14.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	14		
14.13	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	14		
14.14	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change including housing machining	3000022880	LE	14		
14.15	Bearing change	REPR BRNG: GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	14		
14.16	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	14		
14.17	Repair Kit	KIT: REPR; GEAR; BEARINGS, SEALS, ...	0730877	EA	14		
18	**Bin feed 18.5 kw**	**GEARBOX: TYPE: REDUCTION; RATIO: 13:45:1; SPEED: 110**	**0256311**		**1**		

		RPM; POWER: 18.5 KW; SHAFT SIZE: 48 X 70 MM; APPLICATION: CONVEYOR DRIVE TRAIN; ROTATION DIRECTION: LH/RH; MOUNTING B3-B, OIL 7.5 L, NO KEYWAY ON OUTPUT SHAFT TO DIN 6885-1, OUTPUT SHAFT SHOULD BE A DUAL SHAFT WITH COVER; NO INTERNAL BACK STOP; OIL SIGHTGLASS; OIL SAMPLING; PAINT: SKY BLUE; SHAFTS PRESERVED FOR LONG TERM STORAGE USED ON HORIZONTAL BINFEEDS; TERRACE LOAD; PART NO: K120-K2-180X,					
18	**Bin feed 18.5 kw**	**GEARBOX: TYPE: REDUCTION; RATIO: 13:45:1; SPEED: 110 RPM; POWER: 18.5 KW; SHAFT SIZE: 48 X 70 MM; APPLICATION: CONVEYOR DRIVE TRAIN; ROTATION DIRECTION: LH/RH; MOUNTING B3-B, OIL 7.5 L, NO KEYWAY ON OUTPUT SHAFT TO DIN 6885-1, OUTPUT SHAFT SHOULD BE A DUAL SHAFT WITH COVER; NO INTERNAL BACK STOP; OIL SIGHTGLASS; OIL SAMPLING; PAINT: SKY BLUE; SHAFTS PRESERVED FOR LONG TERM STORAGE USED ON HORIZONTAL BINFEEDS; TERRACE LOAD; PART NO: K120-K2-180X,**	**0256311**		**4**		
15.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	4		
15.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	4		
15.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	4		
15.4	Non-destructive testing on components where applicable	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	4		
15.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	4		
15.6	Assess and quality control new component	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	4		

	before assembly						
15.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	4		
15.8	Test run gearbox for at least 8 hours and do second quality control check after assembly	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	4		
15.9	Finish gearbox with paint, name plates and stickers	REPR EQP: FINISH	3000041518	LE	4		
15.10	Fit low speed coupling	REPR EQP: COUPLING	3000023810	LE	4		
15.11	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	4		
15.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	4		
15.13	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	4		
15.14	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change including housing machining	3000022880	LE	4		
15.15	Bearing change	REPR BRNG: GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	4		
15.16	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	4		
15.17	Repair Kit	KIT: REPR;GEAR; K120-K2-180X	0731045	EA	4		
19	**New: Moving Head, K128-W100LI4-L32,[Fender/Siement]**	**MOTOR, GEARED: POWER: 3 KW; CURRENT: 6.4 A; OUTPUT SPEED: 12.7 RPM; RATIO: 114.34:1; POTENTIAL: 380 VAC; MOTOR SPEED: 1400 RPM; MOUNTING: H01-A-1A; ENCLOSURE RATING: IP55; INSULATION CLASS: IP55; SHAFT: DIA 70 MM; THE DRIVE**	**0210110**		**1**		

		MUST HAVE DUAL OUTPUT SHAFTS; REDUCER DRIVE; WITH FLENDER GEARBOX; WITH BRAKE; PAINT SPEC ORANGE; PART NO: K128-W100LI4-L32,					
19	**Refurbish: Moving Head, K128-W100LI4-L32,[Fender/Siement]**	**MOTOR, GEARED: POWER: 3 KW; CURRENT: 6.4 A; OUTPUT SPEED: 12.7 RPM; RATIO: 114.34:1; POTENTIAL: 380 VAC; MOTOR SPEED: 1400 RPM; MOUNTING: H01-A-1A; ENCLOSURE RATING: IP55; INSULATION CLASS: IP55; SHAFT: DIA 70 MM; THE DRIVE MUST HAVE DUAL OUTPUT SHAFTS; REDUCER DRIVE; WITH FLENDER GEARBOX; WITH BRAKE; PAINT SPEC ORANGE; PART NO: K128-W100LI4-L32,**	**0210110**		**7**		
16.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	7		
16.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	7		
16.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	7		
16.4	Non-destructive testing on components where applicable	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	7		
16.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	7		
16.6	Assess and quality control new component before assembly	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	7		
16.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	7		
16.8	Test run gearbox for at least 8 hours and do second quality control check after assembly	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	7		
16.9	Finish gearbox with paint, name plates and	REPR EQP: FINISH	3000041518	LE	7		

	stickers						
16.10	Fit low speed coupling	REPR EQP: COUPLING	3000023810	LE	7		
16.11	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	7		
16.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	7		
16.13	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	7		
16.14	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change including housing machining	3000022880	LE	7		
16.15	Bearing change	REPR BRNG: GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	7		
16.16	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	7		
16.17	Repair Kit	KIT: REPR; GEARBOX; K128-W100LI4-L32	0731419	EA	7		
20	**New: Magnet drive D - 50mm (Boiler incl)**	**MOTOR, GEARED: POWER: 7.5 KW; CURRENT: 15 A; OUTPUT SPEED: 130 RPM; RATIO: 11.15:1; POTENTIAL: 380 V; MOTOR SPEED: 1450 RPM; MOUNTING: BOLTED; ENCLOSURE RATING: IP55; ACCESSORIES: STABILIZING ARM; SHAFT: 50 MM; POLES: 4; MAGNETIC SEPARATOR BOILER INCLINE CONVEYOR; 50HZ; STANDARD TORQUE ARM**	**0666945**		**1**		
20	**Refurbish: Magnet drive D - 50mm (Boiler incl)**	**MOTOR, GEARED: POWER: 7.5 KW; CURRENT: 15 A; OUTPUT SPEED: 130 RPM; RATIO: 11.15:1; POTENTIAL: 380 V; MOTOR SPEED: 1450 RPM; MOUNTING: BOLTED; ENCLOSURE RATING: IP55; ACCESSORIES: STABILIZING ARM; SHAFT: 50 MM; POLES: 4; MAGNETIC SEPARATOR BOILER INCLINE CONVEYOR; 50HZ; STANDARD TORQUE**	**0666945**		**4**		

		ARM					
17.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	4		
17.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	4		
17.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	4		
17.4	Non-destructive testing on components where applicable	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	4		
17.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	4		
17.6	Assess and quality control new component before assembly	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	4		
17.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	4		
17.8	Test run gearbox for at least 8 hours and do second quality control check after assembly	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	4		
17.9	Finish gearbox with paint, name plates and stickers	REPR EQP: FINISH	3000041518	LE	4		
17.10	Fit low speed coupling	REPR EQP: COUPLING	3000023810	LE	4		
17.11	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	4		
17.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	4		
17.13	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	4		
17.14	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change	3000022880	LE	4		

		including housing machining					
17.15	Bearing change	REPR BRNG: GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	4		
17.16	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	4		
17.17	Repair Kit	KIT: REPR; GEARBOX; BEARINGS, SEALS, ... Mag drive D 50mm	0731426	EA	4		
21	**New: Transverse Gearbox**	**GEARBOX: RATIO: 21.90:1; SPEED: 68 RPM; POWER: 45 KW; APPLICATION: ASH STACKER; PART NO: K168-A-225,**	**0231607**		**1**		
21	**Refurbish: Transverse Gearbox**	**GEARBOX: RATIO: 21.90:1; SPEED: 68 RPM; POWER: 45 KW; APPLICATION: ASH STACKER; PART NO: K168-A-225,**	**0231607**		**2**		
18.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	2		
18.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	2		
18.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	2		
18.4	Non-destructive testing on components where applicable	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	2		
18.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	2		
18.6	Assess and quality control new component before assembly	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	2		
18.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	2		
18.8	Test run gearbox for at least 8 hours and do second quality	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	2		

	control check after assembly						
18.9	Finish gearbox with paint, name plates and stickers	REPR EQP: FINISH	3000041518	LE	2		
18.10	Fit low speed coupling	REPR EQP: COUPLING	3000023810	LE	2		
18.11	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	2		
18.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	2		
18.13	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	2		
18.14	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change including housing machining	3000022880	LE	2		
18.15	Bearing change	REPR BRNG: GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	2		
18.16	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	2		
18.17	Repair Kit	KIT: REPR; GEAR; BEARINGS, SEALS, ... K168-A-225	0730878	EA	2		
22	**Coarse Ash Gearbox**	**ASSEMBLY: TYPE: REDUCER DRIVE; APPLICATION: MOVING HEAD DRIVE TRAIN; MATERIAL: STEEL; COMPRISING: GEARBOX; MAGNETIC BRAKE; MOTOR; LENDER GEARBOX; MOTOR 5.5 KW; 380V; BRAKED MOTOR; OUTPUT 13.4 RPM; OUTPUT SHAFT DIA 60 MM; DULE OUTPUT SHAFT FOR BOTH LEFT AND RIGHT HAND SIDE DRIVE; DIRECTION OF ROTATION = REVERSABLE WITH FORWARD DIRECTION WHEN MOTOR ROTATES CLOCKWISE; IP 55; PAINT SPEC = BLUE; PART NO: K108W100LI4-L32,**	**0210162**		**1**		

22	**Coarse Ash Gearbox**	**ASSEMBLY: TYPE: REDUCER DRIVE; APPLICATION: MOVING HEAD DRIVE TRAIN; MATERIAL: STEEL; COMPRISING: GEARBOX; MAGNETIC BRAKE; MOTOR; LENDER GEARBOX; MOTOR 5.5 KW; 380V; BRAKED MOTOR; OUTPUT 13.4 RPM; OUTPUT SHAFT DIA 60 MM; DULE OUTPUT SHAFT FOR BOTH LEFT AND RIGHT HAND SIDE DRIVE; DIRECTION OF ROTATION = REVERSABLE WITH FORWARD DIRECTION WHEN MOTOR ROTATES CLOCKWISE; IP 55; PAINT SPEC = BLUE; PART NO: K108W100LI4-L32,**	**0210162**		**6**		
19.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	6		
19.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	6		
21.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	6		
19.4	Non-destructive testing on components where applicable	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	6		
19.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	6		
19.6	Assess and quality control new component before assembly	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	6		
19.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	6		
19.8	Test run gearbox for at least 8 hours and do second quality control check after assembly	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	6		
19.9	Finish gearbox with paint, name plates and stickers	REPR EQP: FINISH	3000041518	LE	6		
19.10	Fit low speed	REPR EQP: COUPLING	3000023810	LE	6		

	coupling						
19.11	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	6		
19.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	6		
19.13	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	6		
19.14	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change including housing machining	3000022880	LE	6		
19.15	Bearing change	REPR BRNG: GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	6		
19.16	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	6		
19.17	Repair Kit	KIT: REPR; GEARBOX; BEARINGS, SEALS, ... K108W100	0731421	EA	6		
23	**New: Stacker Feed Gearbox**	**GEARBOX: TYPE: BEVEL; RATIO: 12.61:1; SPEED: 1430/64 RPM; B3-B MOUNTING, CW BACKSTOP, SPECIAL SHAFT; PART NO: K160P (250)-X,**	**0187357**		**1**		
23	**Refurbish: Stacker Feed Gearbox**	**GEARBOX: TYPE: BEVEL; RATIO: 12.61:1; SPEED: 1430/64 RPM; B3-B MOUNTING, CW BACKSTOP, SPECIAL SHAFT; PART NO: K160P (250)-X,**	**0187357**		**2**		
20.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	2		
20.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	2		
20.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	2		
20.4	Non-destructive testing on	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	2		

	components where applicable						
20.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	2		
22.6	Assess and quality control new component before assembly	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	2		
20.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	2		
20.8	Test run gearbox for at least 8 hours and do second quality control check after assembly	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	2		
20.9	Finish gearbox with paint, name plates and stickers	REPR EQP: FINISH	3000041518	LE	2		
20.10	Fit low speed coupling	REPR EQP: COUPLING	3000023810	LE	2		
20.11	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	2		
20.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	2		
20.13	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	2		
20.14	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change including housing machining	3000022880	LE	2		
20.15	Bearing change	REPR BRNG: GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	2		
20.16	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	2		
20.17	Repair Kit	KIT: REPR;GEARBOX; BEARINGS, SEALS, ... K160P	0731420	EA	2		

		(250)					
24	**New: Conditioner Gearbox**	**GEARBOX: TYPE: CONDITIONER; RATIO: 45:1; SPEED: 1475/33.3 RPM; POWER: 40 KW; SHAFT SIZE: I/P 45 X O/P 125 MM; APPLICATION: ASH CONDITIONER; HOLLOW OUTPUT SHAFT; SERIAL NO: JKD4505285166.01001; PART NO: IBA5010116.2010 + BA730009.2012.**	**0595468**		**1**		
24	**Refurbish: Conditioner Gearbox**	**GEARBOX: TYPE: CONDITIONER; RATIO: 45:1; SPEED: 1475/33.3 RPM; POWER: 40 KW; SHAFT SIZE: I/P 45 X O/P 125 MM; APPLICATION: ASH CONDITIONER; HOLLOW OUTPUT SHAFT; SERIAL NO: JKD4505285166.01001; PART NO: IBA5010116.2010 + BA730009.2012.**	**0595468**		**12**		
21.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	12		
21.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	12		
21.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	12		
21.4	Non-destructive testing on components where applicable	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	12		
21.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	12		
21.6	Assess and quality control new component before assembly	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	12		
21.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	12		
21.8	Test run gearbox for at least 8 hours and do second quality control check	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	12		

	after assembly						
21.9	Finish gearbox with paint, name plates and stickers	REPR EQP: FINISH	3000041518	LE	12		
21.10	Fit low speed coupling	REPR EQP: COUPLING	3000023810	LE	12		
21.11	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	12		
21.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	12		
21.13	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	12		
21.14	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change including housing machining	3000022880	LE	12		
21.15	Bearing change	REPR BRNG: GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	12		
21.16	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	12		
21.17	Repair Kit	KIT: REPR; GEARBOX; BEARINGS, SEALS, ... IBA5010116	0731417	EA	12		
25	**New: Ash Overland**	**GEARBOX: TYPE: BEVEL HELICAL GEAR; RATIO: 16:1; SPEED: 1490/969 RPM; POWER: 228 KW; SHAFT SIZE: I/P**	**0592669**		**1**		
25	**Refurbish: Ash Overland**	**GEARBOX: TYPE: BEVEL HELICAL GEAR; RATIO: 16:1; SPEED: 1490/969 RPM; POWER: 228 KW; SHAFT SIZE: I/P**	**0592669**		**7**		
22.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	7		
22.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	7		
22.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	7		

22.4	Non-destructive testing on components where applicable	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	7		
22.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	7		
22.6	Assess and quality control new component before assembly	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	7		
22.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	7		
22.8	Test run gearbox for at least 8 hours and do second quality control check after assembly	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	7		
22.9	Finish gearbox with paint, name plates and stickers	REPR EQP: FINISH	3000041518	LE	7		
22.10	Fit low speed coupling	REPR EQP: COUPLING	3000023810	LE	7		
22.11	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	7		
22.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	7		
22.13	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	7		
22.14	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change including housing machining	3000022880	LE	7		
22.15	Bearing change	REPR BRNG: GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	7		
22.16	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	7		

22.17	Repair Kit	KIT: REPR;GEAR; BEARINGS, SEALS, ...	0731413	EA	7		
26	**New: LINK CONVEYOR 75KW**	**GEARBOX: TYPE: BEVEL HELICAL GEAR; RATIO: 12.1; SPEED: 1488/132 RPM; POWER: 58 KW; SHAFT SIZE: I/P 45 X O/P 90 MM; APPLICATION: CONVEYOR DRIVE; REFERENCE NO: QHRB2; SF: 57 WITH BACKLOCK; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).**	**0592671**		**1**		
26	**Refurbish: LINK CONVEYOR 75KW**	**GEARBOX: TYPE: BEVEL HELICAL GEAR; RATIO: 12.1; SPEED: 1488/132 RPM; POWER: 58 KW; SHAFT SIZE: I/P 45 X O/P 90 MM; APPLICATION: CONVEYOR DRIVE; REFERENCE NO: QHRB2; SF: 57 WITH BACKLOCK; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).**	**0592671**		**2**		
23.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	2		
23.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	2		
23.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	2		
23.4	Non-destructive testing on components where applicable	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	2		
23.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	2		
23.6	Assess and quality control new component before assembly	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	2		
23.7	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	2		

23.8	Test run gearbox for at least 8 hours and do second quality control check after assembly	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	2		
23.9	Finish gearbox with paint, name plates and stickers	REPR EQP: FINISH	3000041518	LE	2		
23.10	Fit low speed coupling	REPR EQP: COUPLING	3000023810	LE	2		
23.11	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	2		
23.12	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	2		
23.13	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	2		
23.14	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change including housing machining	3000022880	LE	2		
23.15	Bearing change	REPR BRNG: GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	2		
23.16	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	2		
23.17	Repair Kit	KIT: REPR; GEARBOX; BEARINGS, SEALS, ... QHRB2; SF:57	0731425	EA	2		
27	**New: Cooling Tower Fan, Hansen gearbox**	**GEARBOX: TYPE: REDUCTION; RATIO: 9:1; SPEED: 1480-163.4/740-81.7 RPM; POWER: 180 KW; APPLICATION: COOLING TOWER FAN; HANSEN; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).**	**0176965**		**1**		
27	**Refurbish: Cooling Tower Fan, Hansen**	**GEARBOX: TYPE: REDUCTION; RATIO: 9:1; SPEED: 1480-163.4/740-81.7 RPM; POWER:**			**2**		

	gearbox	**180 KW; APPLICATION: COOLING TOWER FAN; HANSEN; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).**					
24.1	Strip gearbox completely	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	2		
24.2	Clean all components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	2		
24.3	Engineering assessment of all components	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	2		
24.4	Non-destructive testing on components where applicable	TEST EQP: VARIOUS NDT EQUIPMENT; ANNUALLY	3000020498	LE	2		
24.5	Quotation generation	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	2		
24.6	Repair Kit	KIT: REPR; GEARBOX; BEARINGS, SEALS, ...	0730900	EA	2		
24.7	Assess and quality control new component before assembly	INSP EQP: QUALITY CONTROL; ASSESMENT	3000020104	LE	2		
24.8	Assemble gearbox and quality check clearances and gear contact	ASSEMBL EQP: COMPLETE GEARBOX UNIT	3000022896	LE	2		
24.9	Test run gearbox for at least 8 hours and do second quality control check after assembly	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	2		
24.10	Finish gearbox with paint, name plates, Lubricate and stickers	REPR EQP: FINISH	3000041518	LE	2		
24.11	Fit low speed coupling	REPR EQP: COUPLING	3000023810	LE	2		
24.12	Fit High speed coupling	REPR EQP: COUPLING	3000023810	LE	2		
24.13	Quality check for dispatch	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	2		

24.14	Complete rebuild	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	2		
24.15	Pinion Change	REPR EQP MECH: GEARBOX INPUT LINE: Bearing, seal and high-speed pinion change including housing machining	3000022880	LE	2		
24.16	Bearing change	REPR BRNG: GEARBOX ROLLER BEARING: Bearing and seal change including housing machining	3000022881	LE	2		
24.17	Commissioning	COMMISS EQP: SITE: Gearbox commissioning as a curtsey of refurbishment of units	3000033696	LE	2		
28	**New: Feeder Gearbox**	**GEARBOX: TYPE: SPEED REDUCER; RATIO: 70:1; SPEED: 1485/21.21 RPM; POWER: 75 KW; BEW GEAR; REFERENCE NO: K3C355**	**177058**		**1**		
28	**Refurbish: Feeder Gearbox**	**GEARBOX: TYPE: SPEED REDUCER; RATIO: 70:1; SPEED: 1485/21.21 RPM; POWER: 75 KW; BEW GEAR; REFERENCE NO: K3C355**	**177058**		**1**		
25.1	Stripping	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	1		
25.2	Cleaning all Components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	1		
25.3	Engineering assessment	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	1		
25.4	Repair Kit	KIT: REPR; GEAR; BEARINGS, SEALS, ... K3C355	0731418	EA	1		
25.5	Regrind Output wheel	REPAIR, EQUIPMENT: TYPE: GEAR WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES.	3000041512	LE	1		
25.6	Regrind 3rd motion pinion	REPAIR, COMPONENT: TYPE: PINION WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041497	LE	1		
25.7	Chrome & Grind output shaft	REPAIR, COMPONENT: TYPE: SHAFT; METHOD: CHROME AND GRIND; ALL TO BE DONE	3000041513	LE	1		

		ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES					
25.8	Regrind 3rd motion wheel	REPAIR, EQUIPMENT: TYPE: GEAR WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES.	3000041512	LE	1		
25.9	Regrind 2nd motion pinion	REPAIR, COMPONENT: TYPE: PINION WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041497	LE	1		
25.10	Skim & Rebore	REPAIR, COMPONENT: TYPE: SPLIT CASING; METHOD: SKIM AND LINE BORE; ALL TO BE DONE ACCORDING TO ACCEP	3000041506	LE	1		
25.11	Assembly	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	1		
25.12	Finish gearbox with paint, name plates, Lubricate and stickers	REPR EQP: FINISH	3000041518	LE	1		
25.13	Test run	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	1		
25.14	Packaging	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	1		
29	**New: Stacker and reclaim**	**GEARBOX: TYPE: REDUCTION; RATIO: 16.919:1; SPEED: 1481 RPM; POWER: 300 KW; DAVID BROWN; MODEL NO: TRA63;**	**215777**		**1**		
29	**Refurbish: Stacker and reclaim**	**GEARBOX: TYPE: REDUCTION; RATIO: 16.919:1; SPEED: 1481 RPM; POWER: 300 KW; DAVID BROWN; MODEL NO: TRA63;**	**215777**		**4**		
26.1	Stripping	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	4		
26.2	Cleaning all Components	CLEAN EQP:HIGH PRESSURE MACHINE	3000030799	LE	4		
26.3	Engineering assessment	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	4		
26.4	Repair Kit	KIT: REPR; GEARBOX;	0731090	EA	4		

		DB/TRA63					
26.5	Regrind Output wheel	REPAIR, EQUIPMENT: TYPE: GEAR WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES.	3000041512	LE	4		
26.6	Regrind 3rd motion pinion	REPAIR, COMPONENT: TYPE: PINION WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041497	LE	4		
26.7	Chrome & Grind output shaft	REPAIR, COMPONENT: TYPE: SHAFT; METHOD: CHROME AND GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041513	LE	4		
26.8	Regrind 3rd motion wheel	REPAIR, EQUIPMENT: TYPE: GEAR WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES.	3000041512	LE	4		
26.9	Regrind 2nd motion pinion	REPAIR, COMPONENT: TYPE: PINION WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041497	LE	4		
26.10	Skim & rebore	REPAIR, COMPONENT: TYPE: SPLIT CASING; METHOD: SKIM AND LINE BORE; ALL TO BE DONE ACCORDING TO ACCEP	3000041506	LE	4		
26.11	Assembly	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	4		
26.12	Finish gearbox with paint, name plates, Lubricate and stickers	REPR EQP: FINISH	3000041518	LE	4		
26.13	Test run	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	4		
26.14	Packaging	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	4		
30	**New: Stacker**	**GEARBOX: TYPE: REDUCTION;**	**215775**		**1**		

	shuttle	**RATIO: 32.6:1; SPEED: 1480 RPM; POWER: 55 KW; DAVID BROWN; MODEL NO: TRA5-45;**					
30	**Refurbish: Stacker shuttle**	**GEARBOX: TYPE: REDUCTION; RATIO: 32.6:1; SPEED: 1480 RPM; POWER: 55 KW; DAVID BROWN; MODEL NO: TRA5-45;**	**215775**		**1**		
27.1	Stripping	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	1		
27.2	Cleaning all Components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	1		
27.3	Engineering assessment	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	1		
27.4	Repair Kit	KIT: REPR; GEARBOX; DB/TRA5-45	0731087	EA	1		
27.5	Regrind Output wheel	REPAIR, EQUIPMENT: TYPE: GEAR WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES.	3000041512	LE	1		
27.6	Regrind 3rd motion pinion	REPAIR, COMPONENT: TYPE: PINION WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041497	LE	1		
27.7	Chrome & Grind output shaft	REPAIR, COMPONENT: TYPE: SHAFT; METHOD: CHROME AND GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041513	LE	1		
27.8	Regrind 3rd motion wheel	REPAIR, EQUIPMENT: TYPE: GEAR WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES.	3000041512	LE	1		
27.9	Regrind 2nd motion pinion	REPAIR, COMPONENT: TYPE: PINION WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041497	LE	1		
27.10	Skim & Rebore	REPAIR, COMPONENT: TYPE: SPLIT CASING; METHOD: SKIM AND LINE BORE; ALL TO BE DONE ACCORDING TO ACCEP	3000041506	LE	1		
27.11	Assembly	REPR G/BOX: GEARBOX	3000023811	LE	1		

		REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining					
27.12	Finish gearbox with paint, name plates, Lubricate and stickers	REPR EQP: FINISH	3000041518	LE	1		
27.13	Test run	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	1		
27.14	Packaging	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	1		
31	**New: Overland gearbox**	**GEARBOX: TYPE: REDUCTION; RATIO: 23.795:1; SPEED: 1483 RPM; POWER: 600 KW; DAVID BROWN; MODEL NO: TRA91;**	**215773**		**1**		
31	**Refurbish: Overland gearbox**	**GEARBOX: TYPE: REDUCTION; RATIO: 23.795:1; SPEED: 1483 RPM; POWER: 600 KW; DAVID BROWN; MODEL NO: TRA91;**	**215773**		**4**		
28.1	Stripping	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	4		
28.2	Cleaning all Components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	4		
28.3	Engineering assessment	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	4		
28.4	Repair Kit	KIT: REPR; GEAR; DB/TRA91	0731084	EA	4		
28.5	Regrind Output wheel	REPAIR, EQUIPMENT: TYPE: GEAR WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES.	3000041512	LE	4		
28.6	Regrind 3rd motion pinion	REPAIR, COMPONENT: TYPE: PINION WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041497	LE	4		
28.7	Chrome & Grind output shaft	REPAIR, COMPONENT: TYPE: SHAFT; METHOD: CHROME AND GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041513	LE	4		
28.8	Regrind 3rd motion wheel	REPAIR, EQUIPMENT: TYPE: GEAR WHEEL; METHOD:	3000041512	LE	4		

		GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES.					
28.9	Regrind 2nd motion pinion	REPAIR, COMPONENT: TYPE: PINION WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041497	LE	4		
28.10	Skim & Rebore	REPAIR, COMPONENT: TYPE: SPLIT CASING; METHOD: SKIM AND LINE BORE; ALL TO BE DONE ACCORDING TO ACCEP	3000041506	LE	4		
28.11	Assembly	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	4		
28.12	Finish gearbox with paint, name plates, Lubricate and stickers	REPR EQP: FINISH	3000041518	LE	4		
28.13	Test run	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	4		
28.14	Packaging	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	4		
32	**New: Boiler incline gearbox TRA 63**	**GEARBOX: TYPE: REDUCTION; RATIO: 19.088:1; SPEED: 1488 RPM; POWER: 300 KW; APPLICATION: CONVEYOR DRIVE; ROTATION DIRECTION: FORWARD; DUAL OUTPUT SHAFT DIMENSIONS: DIA 165 X LG 187MM; NO KEY WAYS REQUIRED ON SHAFT, IT MUST BE PRESEVED WITH DENSO TAPE; THE GEARBOX MUST HAVE A HAND OPERATED BALL VALVE ON THE OIL DRAIN; MODEL NO: TRA63;**	**0215774**		**1**		
32	**Refurbish: Boiler incline gearbox TRA 63**	**GEARBOX: TYPE: REDUCTION; RATIO: 19.088:1; SPEED: 1488 RPM; POWER: 300 KW; APPLICATION: CONVEYOR DRIVE; ROTATION DIRECTION: FORWARD; DUAL OUTPUT SHAFT DIMENSIONS: DIA 165 X LG 187MM; NO KEY WAYS REQUIRED ON SHAFT, IT**	**0215774**		**6**		

		MUST BE PRESEVED WITH DENSO TAPE; THE GEARBOX MUST HAVE A HAND OPERATED BALL VALVE ON THE OIL DRAIN; MODEL NO: TRA63;					
29.1	Stripping	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	6		
29.2	Cleaning all Components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	6		
29.3	Engineering assessment	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	6		
29.4	Repair Kit	KIT: REPR; GEARBOX; DB/TRA63	0731090	EA	6		
29.5	Regrind Output wheel	REPAIR, EQUIPMENT: TYPE: GEAR WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES.	3000041512	LE	6		
29.6	Regrind 3rd motion pinion	REPAIR, COMPONENT: TYPE: PINION WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041497	LE	6		
29.7	Chrome & Grind output shaft	REPAIR, COMPONENT: TYPE: SHAFT; METHOD: CHROME AND GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041513	LE	6		
29.8	Regrind 3rd motion wheel	REPAIR, EQUIPMENT: TYPE: GEAR WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES.	3000041512	LE	6		
29.9	Regrind 2nd motion pinion	REPAIR, COMPONENT: TYPE: PINION WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041497	LE	6		
29.10	Skim & Rebore	REPAIR, COMPONENT: TYPE: SPLIT CASING; METHOD: SKIM AND LINE BORE; ALL TO BE DONE ACCORDING TO ACCEP	3000041506	LE	6		
29.11	Assembly	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of	3000023811	LE	6		

		gearbox including bearings, seals, gears, shafts and housing machining					
29.12	Finish gearbox with paint, name plates, Lubricate and stickers	REPR EQP: FINISH	3000041518	LE	6		
29.13	Test run	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	6		
29.14	Packaging	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	6		
33	**New: Overland Gearbox**	**GEARBOX: TYPE: REDUCTION; RATIO: 17.93:1; SPEED: 1473/85 RPM; POWER: 250 KW; DAVID BROWN, DOUBLE SIDED OUTPUT SHAFT; MODEL NO: TRA63**	**215975**		**1**		
33	**Refurbish: Overland Gearbox**	**GEARBOX: TYPE: REDUCTION; RATIO: 17.93:1; SPEED: 1473/85 RPM; POWER: 250 KW; DAVID BROWN, DOUBLE SIDED OUTPUT SHAFT; MODEL NO: TRA63**	**215975**		**4**		
30.1	Stripping	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	4		
30.2	Cleaning all Components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	4		
30.3	Engineering assessment	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	4		
30.4	Repair Kit	KIT: REPR; GEARBOX; DB/TRA63	0731090	EA	4		
30.5	Regrind Output wheel	REPAIR, EQUIPMENT: TYPE: GEAR WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES.	3000041512	LE	4		
30.6	Regrind 3rd motion pinion	REPAIR, COMPONENT: TYPE: PINION WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041497	LE	4		
30.7	Chrome & Grind output shaft	REPAIR, COMPONENT: TYPE: SHAFT; METHOD: CHROME AND GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041513	LE	4		

30.8	Regrind 3rd motion wheel	REPAIR, EQUIPMENT: TYPE: GEAR WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES.	3000041512	LE	4		
30.9	Regrind 2nd motion pinion	REPAIR, COMPONENT: TYPE: PINION WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041497	LE	4		
30.10	Skim & Rebore	REPAIR, COMPONENT: TYPE: SPLIT CASING; METHOD: SKIM AND LINE BORE; ALL TO BE DONE ACCORDING TO ACCEP	3000041506	LE	4		
30.11	Assembly	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	4		
30.12	Finish gearbox with paint, name plates, Lubricate and stickers	REPR EQP: FINISH	3000041518	LE	4		
30.13	Test run	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	4		
30.14	Packaging	CREATE, DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	4		
34	New	**GEARBOX: TYPE: REDUCTION; RATIO: VARIABLE; SPEED: 2700/3100/3400/4000 RPM; POWER: 55 KW; SUPPL P/N: ET3600FS; BREVIN 3 STAGE, FLANGED MOUNT, TORQUE 5000 NM, EFFIENCY 90 PCT.**	**175974**	EA	**1**		
34	Refurbish	**GEARBOX: TYPE: REDUCTION; RATIO: VARIABLE; SPEED: 2700/3100/3400/4000 RPM; POWER: 55 KW; SUPPL P/N: ET3600FS; BREVIN 3 STAGE, FLANGED MOUNT, TORQUE 5000 NM, EFFIENCY 90 PCT.**	**175974**	EA	**3**		
31.1	Stripping	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	3		
31.2	Cleaning all Components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	3		
31.3	Engineering assessment	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	3		

31.4	Repair Kit	KIT: REPR; GEARBOX; DB	0731090	EA	3		
31.5	Regrind Output wheel	REPAIR EQUIPMENT: TYPE: GEAR WHEEL; METHOD: GRIND; ALL TO BE DONE TO ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES.	3000041512	LE	3		
31.6	Regrind 3rd motion pinion	REPAIR, COMPONENT: TYPE: PINION WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041497	LE	3		
31.7	Chrome & Grind output shaft	REPAIR, COMPONENT: TYPE: SHAFT; METHOD: CHROME AND GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041513	LE	3		
31.8	Regrind 3rd motion wheel	REPAIR, EQUIPMENT: TYPE: GEAR WHEEL; METHOD: GRIND; ALL TO BE DONE TO ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES.	3000041512	LE	3		
31.9	Regrind 2nd motion pinion	REPAIR, COMPONENT: TYPE: PINION WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041497	LE	3		
31.10	Skim & rebore	REPAIR, COMPONENT: TYPE: SPLIT CASING; METHOD: SKIM AND LINE BORE; ALL TO BE DONE ACCORDING TO ACCEP	3000041506	LE	3		
31.11	Assembly	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	3		
31.12	Finish gearbox with paint, name plates, Lubricate and stickers	REPR EQP: FINISH	3000041518	LE	3		
31.13	Test run	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	3		
31.14	Packaging	CREATE DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	3		
35	**New: CAC drive**	**GEARBOX: TYPE:**	**215424**		1		

		BEVEL/HELICAL; RATIO: 19.88:1; SPEED: 1475/74 RPM; POWER: 11 KW; SUPPL P/N: KD100/LH; C.A.C; DRIVE; FLENDER BRAND.					
35	**Refurbish: CAC drive**	**Refurbish GEARBOX: TYPE: BEVEL/HELICAL; RATIO: 19.88:1; SPEED: 1475/74 RPM; POWER: 11 KW; SUPPL P/N: KD100/LH; C.A.C; DRIVE; FLENDER BRAND.**	**215424**		3		
32.1	Stripping	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	3		
32.2	Cleaning all Components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	3		
32.3	Engineering assessment	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	3		
32.4	Repair Kit	KIT: REPR; GEARBOX; DB	0731090	EA	3		
32.5	Regrind Output wheel	REPAIR EQUIPMENT: TYPE: GEAR WHEEL; METHOD: GRIND; ALL TO BE DONE TO ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES.	3000041512	LE	3		
32.6	Regrind 3rd motion pinion	REPAIR, COMPONENT: TYPE: PINION WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041497	LE	3		
32.7	Chrome & Grind output shaft	REPAIR, COMPONENT: TYPE: SHAFT; METHOD: CHROME AND GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041513	LE	3		
32.8	Regrind 3rd motion wheel	REPAIR EQUIPMENT: TYPE: GEAR WHEEL; METHOD: GRIND; ALL TO BE DONE TO ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES.	3000041512	LE	3		
32.9	Regrind 2nd motion pinion	REPAIR, COMPONENT: TYPE: PINION WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041497	LE	3		
32.10	Skim & rebore	REPAIR, COMPONENT: TYPE: SPLIT CASING; METHOD: SKIM AND LINE BORE; ALL TO BE	3000041506	LE	3		

		DONE ACCORDING TO ACCEP					
32.11	Assembly	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	3		
32.12	Finish gearbox with paint, name plates, Lubricate and stickers	REPR EQP: FINISH	3000041518	LE	3		
32.13	Test run	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	3		
32.14	Packaging	CREATE DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	3		
36	**New**	**Refurbish GEARBOX: TYPE: BEVEL HELICAL GEAR; RATIO: 12.1; SPEED: 1488/132 RPM; POWER: 49 KW; SHAFT SIZE: I/P 45 X O/P 90 MM; APPLICATION: CONVEYOR DRIVE; REFERENCE NO: QHRB2; SF: 57 WITH BACKLOCK; OIL CAPACITY: 39 L..**	**592670**		**1**		
36	**Refurbish**	**Refurbish GEARBOX: TYPE: BEVEL HELICAL GEAR; RATIO: 12.1; SPEED: 1488/132 RPM; POWER: 49 KW; SHAFT SIZE: I/P 45 X O/P 90 MM; APPLICATION: CONVEYOR DRIVE; REFERENCE NO: QHRB2; SF: 57 WITH BACKLOCK; OIL CAPACITY: 39 L..**	**592670**		**3**		
33.1	Stripping	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	3		
33.2	Cleaning all Components	CLEAN EQP: HIGH PRESSURE MACHINE	3000030799	LE	3		
33.3	Engineering assessment	INSP EQP MECH: MECHANISM DEVICE; PHYSICAL	3000019025	LE	3		
33.4	Repair Kit	KIT: REPR; GEARBOX; DB	0731090	EA	3		
33.5	Regrind Output wheel	REPAIR EQUIPMENT: TYPE: GEAR WHEEL; METHOD: GRIND; ALL TO BE DONE TO ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES.	3000041512	LE	3		
33.6	Regrind 3rd	REPAIR, COMPONENT: TYPE:	3000041497	LE	3		

	motion pinion	PINION WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES					
33.7	Chrome & Grind output shaft	REPAIR, COMPONENT: TYPE: SHAFT; METHOD: CHROME AND GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041513	LE	3		
33.8	Regrind 3rd motion wheel	REPAIR, EQUIPMENT: TYPE: GEAR WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES.	3000041512	LE	3		
33.9	Regrind 2nd motion pinion	REPAIR, COMPONENT: TYPE: PINION WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041497	LE	3		
33.10	Skim & rebore	REPAIR, COMPONENT: TYPE: SPLIT CASING; METHOD: SKIM AND LINE BORE; ALL TO BE DONE ACCORDING TO ACCEP	3000041506	LE	3		
33.11	Assembly	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	3		
33.12	Finish gearbox with paint, name plates, Lubricate and stickers	REPR EQP: FINISH	3000041518	LE	3		
33.13	Test run	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	3		
33.14	Packaging	CREATE DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	3		
37	**New: Ash Tripper car**	**GEARBOX: TYPE: NORD BEVEL HELICAL; RATIO: 188.06 NM; SPEED: 7.65 RPM; POWER: 0.75 KW; SHAFT SIZE: 50 MM; APPLICATION: TRIPPER CAR; REFERENCE NO: SK9032.1AZK-IEC80-188.06-SPL ; G/BOX SERVICE FACTOR 1.6 OUTPUT TORQUE 924 NM, OUTPUT HANDLING R OUTPUT SHAFT**	**766265**		1		

		HOLLOW/PARALLEL KEY.OUTPUT CONFIG RIGHT ANGLED TQ ARM MOUNT.					
37	**Refurbish: Ash Tripper car**	**GEARBOX: TYPE: NORD BEVEL HELICAL; RATIO: 188.06 NM; SPEED: 7.65 RPM; POWER: 0.75 KW; SHAFT SIZE: 50 MM; APPLICATION: TRIPPER CAR; REFERENCE NO: SK9032.1AZK-IEC80-188.06-SPL ; G/BOX SERVICE FACTOR 1.6 OUTPUT TORQUE 924 NM, OUTPUT HANDLING R OUTPUT SHAFT HOLLOW/PARALLEL KEY.OUTPUT CONFIG RIGHT ANGLED TQ ARM MOUNT.**	**766265**		**21**		
34.1	Stripping	STRIP AND QUOTE: EQUIPMENT: ASSEMBLY	3000020295	LE	21		
34.2	Cleaning all Components	CLEAN EQP:HIGH PRESSURE MACHINE	3000030799	LE	21		
34.3	Engineering assessment	INSP EQP MECH:MECHANISM DEVICE;PHYSICAL	3000019025	LE	21		
34.4	Repair Kit	KIT:REPR;GEARBOX;DB	0731090	EA	21		
34.5	Regrind Output wheel	REPAIR, EQUIPMENT: TYPE: GEAR WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES.	3000041512	LE	21		
34.6	Regrind 3rd motion pinion	REPAIR, COMPONENT: TYPE: PINION WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041497	LE	21		
34.7	Chrome & Grind output shaft	REPAIR, COMPONENT: TYPE: SHAFT; METHOD: CHROME AND GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES	3000041513	LE	21		
34.8	Regrind 3rd motion wheel	REPAIR, EQUIPMENT: TYPE: GEAR WHEEL; METHOD: GRIND; ALL TO BE DONE TO ACCORDING TO ACCEPTABLE ENGINEERING PRACTICES TO OEM TOLERANCES.	3000041512	LE	21		
34.9	Regrind 2nd motion pinion	REPAIR, COMPONENT: TYPE: PINION WHEEL; METHOD: GRIND; ALL TO BE DONE ACCORDING TO ACCEPTABLE	3000041497	LE	21		

		ENGINEERING PRACTICES TO OEM TOLERANCES					
34.10	Skim & rebore	REPAIR, COMPONENT: TYPE: SPLIT CASING; METHOD: SKIM AND LINE BORE; ALL TO BE DONE ACCORDING TO ACCEP	3000041506	LE	21		
34.11	Assembly	REPR G/BOX: GEARBOX REDUCTION: Complete refurbishment of gearbox including bearings, seals, gears, shafts and housing machining	3000023811	LE	21		
34.12	Finish gearbox with paint, name plates, Lubricate and stickers	REPR EQP: FINISH	3000041518	LE	21		
34.13	Test run	TEST EQP MECH: COMPONENTS/SYSTEM	3000019046	LE	21		
34.14	Packaging	CREATE DOCUMENT: TYPE: END OF JOB DOCUMENTATION PACKAGE; MEDIA: HARDCOPY	3000018567	LE	21		
38	**Transport**	**TRNSP EQP: PRIMARY; ROAD; FLATBED TRUCKS;1**	**3000030740**	KM			

The total of the Prices