

	Scope of Work	Generation Medupi Power Station
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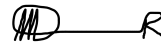
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1 Introduction

Medupi Power Station wants to contract out the maintenance of the Submerged Scraper Conveyor (SSC) Plant during outages.. The plant to be contracted out includes the Submerged Scraper Conveyor(SSC), discharge chute with grizzlies, dipper boxes, and the agitation, make-up, cooling, and chain washing water systems.. This contract will comprise of the execution of Mechanical and Control and Instrumentation maintenance, inspection and repairs on the Philosophy outages.. This document will describe the scope of work required for this contract.

2 Supporting Clauses

2.1 Scope

This document will cover the requirements for the philosophy outage contract on the Medupi Submerged Scraper Conveyor plant.

2.1.1 Purpose

The purpose of this document is to define the scope of work for the philosophy outage contract on the Medupi Submerged Scraper Conveyor plant.

2.1.2 Applicability

This document is applicable to Generation Medupi Power Station only.

2.2 Normative/Informative References

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

2.2.1 Normative

- [1] Medupi Bottom Ash Removal Maintenance Strategy – 240-88024437
- [2] Medupi Bottom Ash Removal Spares Strategy – 240-95113529
- [3] Safe Operation of Submerged Scraper Conveyors - 240-83459207
- [4] Outage Philosophy for Medupi Power Station - 240-92360717
- [5] 241-2022747 Medupi Power Station Unit 1 IR 2025 SSC Outage Scope of work
- [6] Standard for Welding Requirements on Eskom Plant 240-106628253
- [7] Supplier Quality Management: Specification 240-105658000

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2.2.2 Informative

[8]	ESKASAAA3 on all Eskom Plant.	Eskom approval of personnel performing quality related special processes
[9]	SANS 1123	Pipe Flanges
[10]	SANS 1700	Fasteners
[11]	SANS 1977	Conveyor chains, attachments, and sprockets
[12]	SANS 657-3	Steel tubes for rolls for conveyor belt idlers
[13]	SANS 962-1	Mechanical Fasteners for conveyor belts
[14]	237 - 0012	Medupi Maintenance User Requirements Specification
[15]	Act 107 of 1998	National Environmental Management Act, 1998
[16]	Act 14 Of 2009	The National Environmental Laws Amendment Act, 2009
[17]	Act 73 of 1989	The Environment Conservation Act 1989
[18]	Act No 102 of 1980	National Key Points
[19]	Act No 85 of 1993	Occupational Health and Safety & Regulations
[20]	ESKPVAEY6:	Eskom Operating Regulations for High Voltage Systems
[21]	GGR 0992	Plant Safety Regulations
[22]	NMP47-7	Application of KKS plant coding

2.3 Definitions

Definition	Explanation
Contractor	Service provider contracted to supply specific service to Eskom, Medupi Power Station
Employer	Eskom Medupi Power Station
Responsible Person	Person Authorised to take permits in line with the Eskom Plant Safety Regulations (PSR)
Splicing Contractor	Contractor responsible for splicing and Pulley lagging
Philosophy outages	Outages coordinated and controlled by the Employer's Outage Management Department, conducted in line with the Employer's outage philosophy
Opportunity outages	Short outages on the SSC based on opportunity and coordinated and managed by the Employer's Maintenance Department

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2.3.1 Classification

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2.3.1.1.1.2 **Controlled disclosure:** controlled disclosure to external parties (either enforced by law, or discretionary).

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2.3.1.1.1.5 **Top Secret:** the classification given to information that may be used by malicious/opposing/hostile elements to **neutralize** the objectives and functions of Eskom Holdings Limited.

2.4 Abbreviations

Abbreviation	Description
BS	British Standard
BU	Business Unit
Gx	Eskom Generation
ISO	International Standards Organisation
KKS	Kraftwerk Kennzeichen System
KPI	Key Performance Indicator
NEC	New Engineering Contract
OEM	Original Equipment Manufacturer
PCLF	Planned Capability Loss Factor
PSR	Plants Safety Regulations
QC	Quality Control
QCP	Quality Control Plan
QMP	Quality Management Programme
RP	Responsible Person
SANS	South African National Standards
SAP	Systems, Applications, Products (Plant Maintenance, Procurement, Finance and Materials Management) integrated maintenance management system
SHEQ	Safety, Health, Environment and Quality
SOW	Scope of Work
SSC	Submerged Scraper Conveyor

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Abbreviation	Description
V	Volts

2.5 Roles and Responsibilities

- The document compiler is responsible to ensure that any changes to this document are communicated with the procurement department and other relevant internal departments.
- Outage Management is responsible for ensuring that the Service is provided as per the SOW. The contractor will be reporting to outage management. Outage management will also be responsible for quality control and co-ordination of spares.
- Engineering will be involved in documentation review, technical support, change management, and will be part of the quality control.
- Commercial will be part of the contract placement process and communication with the contractor until contract award.

2.6 Process for monitoring

N/A

2.7 Related/Supporting Documents

N/A

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3 Requirements and Scope of Work

Below is the scope of work which comprises of the execution of the philosophy outage work on the Submerged Scraper conveyor. Included in the scope of work are requirements for condition monitoring, continuous improvement, quality, and documentation control. Condition Monitoring excludes vibration monitoring, thickness testing, non-destructive testing (NDT), oil, and lubricant analysis.

3.1 Plant areas included is the SOW

The SOW of this contract is for the Submerged Scraper Conveyors (SSC) directly under the boiler

The contract excludes:

- Electrical maintenance,
- Hydraulic system maintenance
- General cleaning of the floor area surrounding the SSC

3.2 Contract Period

The Contract period is 5 years (60 months).

3.3 Management strategy requirements

The management strategy of the contractor is expected to comply with the Safety, Health, Environment and Quality policies of Eskom Generation. The Contractor is also expected to support the business competitiveness, retention of critical skills and high-performance culture.

Complementary services to improve plant and labour performance shall include project management, value engineering, QCP's and documentation control, and spares supply, where required.

It is further expected of the management strategy to support the governmental socio-economic requirements such as local black economic empowerment as well as transfer of skills and operational experience.

3.4 Manpower requirements

3.4.1 Skills Requirements

It is expected that the Contractor will provide skilled and suitably qualified staff with relevant experience and medical fitness to fulfil services required. Such skills requirement shall include but not be limited to English proficiency, knowledge of Occupational Health and Safety Act 85 of 1993, NEC contract management, quality management, control and assurance. Skills requirements will also be part of the Technical Evaluation and once a contract is in place these requirements need to be adhered to for the appointment of staff.

The Contractor shall employ in and about the execution of the works, only such persons that are careful, competent and efficient in their specific trades and callings and the Employer shall be at liberty to object to and require the Contractor to remove from the works forthwith any person employed by the Contractor in or about the execution of the works who, in the opinion of the Employer, misconducts himself or is incompetent or negligent in the proper performance of his/her duties and such person shall not again be employed for the works without the written permission of the Employer.

Proof of qualification is to be supplied on request to the Employer.

3.4.2 Plant Safety Regulations

It is compulsory for the *Contractor* to have at least two persons trained and authorised as Responsible Persons (RP) in terms of Plant Safety Regulations, for every outage. This training will be provided by the *Employer* within 3 months of contract award date. Authorization of the persons as RPs will be through the *Employer* authorization committee within 3 months of theoretical training and thereafter RPs will be expected to undergo re-authorization every two years.

Please note the following:

- Eskom Medupi Gx will allow each RP to attend the training free of charge
- If the RP fails the training on the first try it does not exempt the contractor from the compulsory requirement of have persons authorized.
- Eskom Medupi Gx will *not pay* the contractor for the hours spent on the RP training of an incumbent that has to *repeat* the *training*.
- The expectation is that the contractor will have RP trained and authorized 6 months after the contract start date.

3.4.3 Other training

Employees that are employed for specific skills, e.g. the Safety Officers and QC Personnel are required to be trained in all necessary trainings before being employed by the contractor for this Scope of Work. All other necessary training in relation to the scope of this contract shall be provided by the contractor. This includes but are not limited to fitting, boilermaker, welding, rigging, forklift driving, working at heights, tele handlers etc.

3.5 Condition Monitoring

The scope includes condition monitoring of equipment via observation which include amongst others, measurement, visual, audial, touch and smell. The employer has a third- party contract in place for electronic vibration monitoring as well as oil and lubricant analysis, and will thus be excluded from this Scope of work.

The scope however includes implementation of corrective actions which are identified by the Medupi Power Station Condition monitoring programme.

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3.6 Continuous improvement requirements

The scope also includes participation in improvement programs and implementation of continuous improvement initiatives to optimise plant performance, reduce system and equipment failures and reduce outage execution times.

3.7 Operational management requirements

Part of the operational management of this scope is reporting. The types of reports inspection and execution report, execution progress reporting, manpower number reporting, and any other reportable incidents. The level of detail and frequency of reporting will be mutually agreed by the *Employer* and the *Contractor* during the contract negotiation phase of this agreement. These may change from time to time on request by the *Employer*.

The scope includes attendance of all outage related meetings which includes ad hoc meetings during none outage periods and daily meeting during outage execution periods, and all *Employer* safety meetings and any ad-hoc meetings that may arise in order to address any outage or safety related matters.

All work conducted at operational level shall be managed such that any service rendered does not interfere with the *Employer's* scheduled work and should be aligned with the *Employer's* internal work control process. Should the *Employer* become aware of any changes to the activity schedule (programme of notifications), the *Employer* may issue the *Contractor* with a revised programme. All works will be subject to anytime inspection from the *Employer*.

Housekeeping is expected to be done with every activity and failure to comply to this requirement will result in the *employer* issuing a non-conformance report (NCR) to the *contractor*.

Please note the following:

- Any work that requires additional manpower or other resources not part of the original Task Order may only be performed upon receipt of a Task Order.
- *Task Order* dates, if *before* the contract end date, need to be *strictly adhered to*, and if required to be extended, needs to be discussed and agreed upon between the Contracts Manager and the Contractor before the Task Order end date is reached.
- If the Task Order date is not extended by the Contracts Manager as agreed as mentioned above, Eskom reserves the right to not pay the contractor for the costs incurred after the Task Order date.

3.8 Quality and Documentation Control

Any witness, hold and inspection points shall be strictly adhered to. All measuring and test equipment is expected to be calibrated at all times & proof thereof must be readily available. All Quality References and Standards as stipulated in this document will be adhered to. Work will only be conducted with an

Employer approved QMP and with Eskom's quality documentation management system and processes.

3.9 Recommissioning Requirements

All Plant equipment maintained shall be re-commissioned as per site specific procedures after any maintenance intervention. See sub-section with sub-heading 'Commissioning and Testing towards the end of Table 3

3.10 Re-work

Where there are activities from poor workmanship, Eskom will not pay the Contractor for the re-work, including transport and accommodation

The contractor shall be held liable for any rework by means of a "payment penalty" if the employer finds the cause to be negligence/poor workmanship. Unless the contractor can prove otherwise by means of a report within 7 days after being issued with a NCR.

3.11 Sub-contracting

Only sub-Contractors authorised by the Employer will carry out work on the equipment in terms of this contract. In case the contractor subcontracts the work, it is the Contractor's responsibility to provide services as per contract. Thus, this implies that Subcontractor's employees and equipment is the Contractor's responsibility. The contractor shall submit in writing the names of all proposed Subcontractors, including certificates and registration to the Employer's Representative for acceptance /rejection. The Contractor can only appoint proposed Subcontractors after the acceptance by the Employer's representative.

3.12 Safety Apparel and Personal Protective Equipment (PPE)

The plant areas are equipped with safety signage indicating safety equipment and PPE required in those specific areas. This typically include but is not limited to safety shoes/safety boots, reflective trousers and jackets, hard hat with secure chin strap, industrial dust mask, disposable dust coveralls, goggles, face shield, gloves and ear plugs/muffs. The Contractors' personnel will adhere to these requirements.

The Contractor will provide all safety apparel, safety equipment and personal protective equipment for it's employees.

3.13 Non-Compliance to Regulations, Rules and Procedures

1. The Employer reserve the right to have any of the Contractor's personnel removed from site without any form of compensation to Contractor, in the event of Contractor's personnel contravening OHS act or any of the Employer's Lifesaving rules, regulations and procedures.

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2. The Employer reserves the right to request disciplinary/corrective action against the contractor's employees if-and-when required.

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

Entry to site shall only be approved once the following are adhered to:

1. Contractor's safety file is approved by Employer's Safety department
2. All personnel have undergone screening for criminal records and outstanding arrest warrants.
3. All personnel have attended site specific safety induction training.
4. Compliance with the requirements as stated in the General Works information.

3.15 Regular working hours

Contractor's working hours, in terms of contract, are Mondays to Fridays 07:00-19:00 excluding public holidays. All work done outside normal working hours will be additional cost to the Employer, notwithstanding negligence and poor performance by the Contractor. All contractor's key personnel delivering services will sign daily attendance register as per employer's condition of service

It is not envisaged that a night shift will be required. The employer may however require the Contractor to establish a night shift in the event of poor progress, to catch up with delays. The contractor will not be paid for night shift if the delays are caused by poor progress on the contractor side. If the delays or request is from the Employer, the nights shift required will be compensated on a rates and actual hours worked principle. Night shift will be 19:00 in the evening to 7:00 the following morning.

3.16 Leave

Eskom will not pay for employees that are not on site due to any kind of leave

3.17 Record keeping and reporting requirements

All records and archives are to be kept or recorded using the Eskom systems. Expected records to be captured, reported and archived are:

- Inspection and execution reports
- QC Documentation and databooks, and
- Any other reports that might be deemed necessary by the Contractor or the outage coordinator
- All Defined cost for equipment, spares, consumables, and subcontractors

All these records should be submitted electronically to the relevant Coordinator and archived by the *Contractor* for the duration of the contract

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3.18 Tools, Equipment and Transportation

1. The Contractor shall provide all hand tools, including electrical hand tools, required to execute the outage scope of work. These tools should be readily available on site at the unit.
2. The contractor will supply all their the tools including all special tools and equipment required to execute the scope of work as stated. This typically includes but is not limited to:
 - Torque wrenches
 - Electrical impact wrenches and impact wrench sockets
 - Portable hydraulic jacks and portable hydraulic power packs
 - Flogging spanners
 - Portable lighting and extension cables
 - Power tools such as grinders, portable welding machines and drilling machines
 - Vernier callipers for measuring chain wear (600 mm and digital 200 or 300mm)
 - Forklift (if requested by the Employer)
3. All tools that need calibration must always have valid certificates of calibration before being utilized in the plant. These certificates must be readily available on site.
4. The contractor shall supply all his own lifting equipment, i.e., web slings, chain slings, shackles, chain blocks, tirfor hoists, lever hoists, etc. This will also include tools to move the SSC into maintenance position and back to its operational position. Usually, a minimum of four 5-ton tirsors are used.
5. All lifting equipment shall comply to OHS act and Driven Machinery Regulation, Compliance shall be verified by the Employers GMR2.1.
6. All lifting equipment compliance documentation shall be readily available on site and will be made available to the employer on request.
7. The contractor will be responsible to transport all spares from the stores to the plant using the appropriate transport equipment. This includes but is not limited to spares component like chains, flights, planetary gearboxes, stubshafts, drive shafts, tension shafts, steel plates sheet and liners, and all small replacement components. .
8. The contractor will also be required to transport all refurbishable components back to the stores. and submit the paperwork required to book these components back into the stores. The contractor will also be required to transport all scraped component and material to the appropriate disposal area on site.

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9. The contractor will be required to make provision for a forklift when so required. The employer will instruct the contractor to mobilise the forklift, when required, by issuing a task order for the period required. When the truck is on site, it can also be used on plants other than the SSC.

Please note: Mobile lifting equipment like cranes, telehandlers, scissor lifts, cherry pickers and forklifts will be supplied by the Employer. The contractor's lifting equipment operators should however be authorised to operate all the employers mobile Equipment. The Contractor's Lifting equipment operators should be authorised to operate the employer's 90 ton and 25 tons cranes at the start of the contract and should be authorised to operate the rest of the equipment within 3 months from the site establishment.

3.19 Spares and Consumables

3.19.1 Outage Spares

The employer will be responsible to provide all spares for the replacement of plant components during outages. These spares and the minimum and maximum levels at which they are required to be kept in the stores are captured in the spares strategy for the SSC is referenced in[2]. Due to the relatively short duration of the outages and the criticality of the Units returning to service on time, the employer can however from time to time request the contractor to supply spares to ensure that the return to service dates are met. This will typically include, but not limited to, items that are not stock items in the stores. This will be done on an actual cost-plus fee basis. The contractor will only supply spares after a task order has been issued by the employer. A provision for spares will therefore be made on the contract for this purposes.

3.19.2 Outage consumables

As indicated in the notes at the end of Table 3, outage consumables like bolts, nuts, washer, gaskets and sealants for piping, valves and trough plates, and doors, should be included for in the price of the relevant activities. Cutting and welding consumables should also be included in the relevant activities, as indicated. The employer may also request the contractor to supply any other outage consumables for the SSC not included above, where required. The contractor supplies these consumables on an actual cost-plus fee basis. A fixed value will also be provided for outage consumables for the purposes of this contract.

3.19.3 Stores Reservation and booking back of components

The employer will create reservation for all components to be withdrawn from stores and the contractor will be responsible to collect these items from stores and transport to the plant for installation.

All refurbishable components will be returned to stores by the contractor with the required paperwork for booking the 'damaged or used' components back into the stores. The Employer will be responsible to prepare the required documentation.

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3.20 Mobile Office, Ablution, Tools and Storage Facilities (Park homes)

1. The contractor will be required to establish mobile workspace units to serve as Office, Ablution, and storage Containers/Units for the contractor's staff on site.
2. The contractor will be responsible for connection of power from the nearest Eskom supply point to the various mobile workspace units.
3. The contractor will also be responsible for the connection of potable water from the supply by the Employer to the various units that require potable water.
4. The contractor will be required to install Sewage removal pipes from the ablution mobile units to the nearest connection sewage pipeline of the employer.
5. The contractor will be required to supply a rental price as well as a price to purchase the Units in which case the units will become the property of the employer.
6. The contractor will be required to maintain the Mobile units for the duration of the contract. The Contractor will rectify any defects immediately or as soon as practically possible, at the contractors cost. The Employer may conduct inspections at any time and instruct the contractor to rectify any defects, at the contractor's cost.
7. It is estimated that the mobile workspaces listed in table 1 will be required for this contract. For evaluation purposes the contractors will be required to quote on mobile space that provides this functionality and accommodation capacities. Where Eskom does have some of these facilities available, the contractor will be responsible to relocate them if required. Final facilities will be negotiated with the successful contractor and mobilising any facility or movement of any facility will only be done on instruction of the employer. It should be noted that these are the minimum estimated facilities and if the successful contract wants to mobilize additional facilities it will be at the contracts cost.

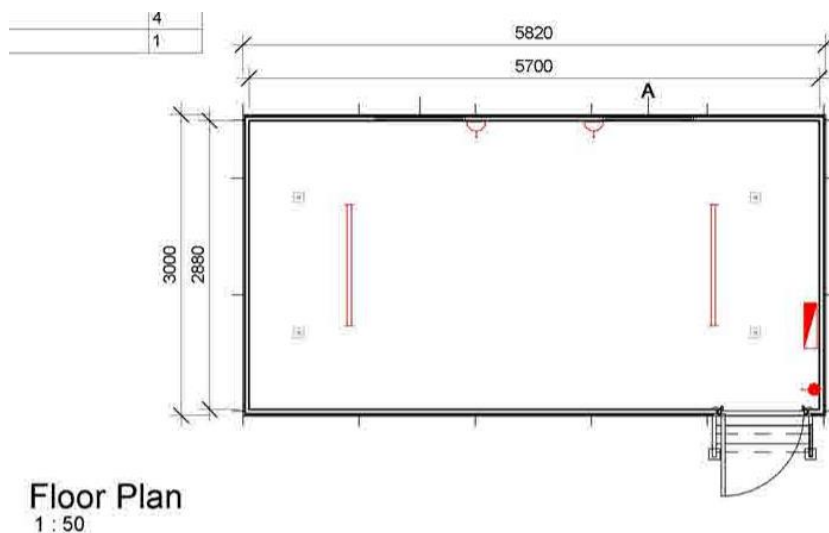
Table 1: Mobile Workspace Requirements Estimates

Description	Est Qty	Size	Detail layout	Furniture
Mobile Office - Site manager, QC etc.	1	6 x 3 m	1 open plan office	3 or 4 desks, 6 office chairs, Aircon
Mobile Kitchen/ Boardroom - labour	1	12 x 3	1 large open plan kitchen/boardroom	Tables and chairs for labour for lunch and meetings, aircons

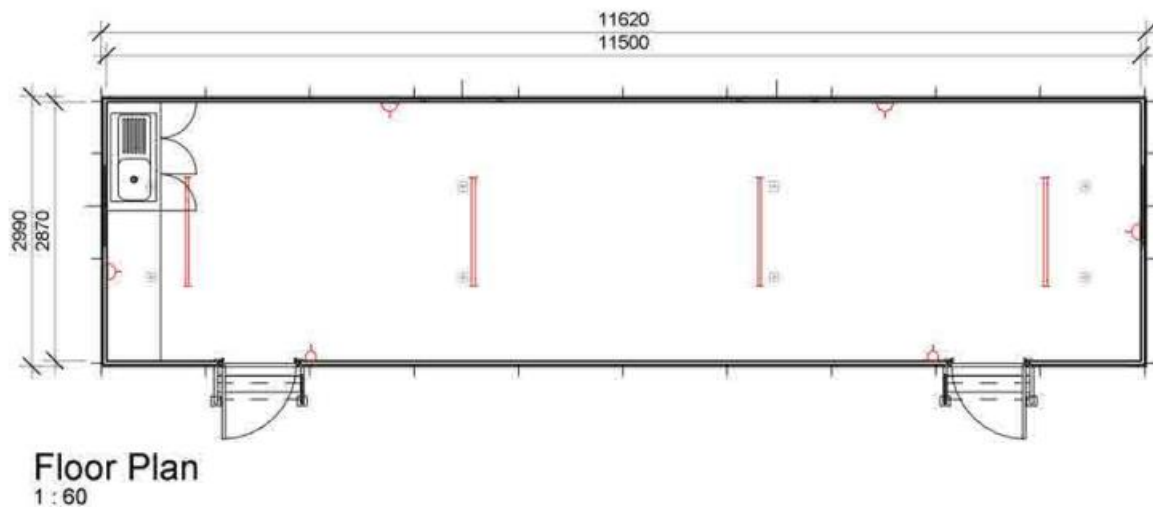
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Description	Est Qty	Size	Detail layout	Furniture
Mobile toilets Male	1	9 x 3	2 Toilets, 2 Urinals, 4 basins	None
Mobile toilets female			Female: 2 toilets, 2 basins	None
Mobile container store - tools, spares and consumables	1	6 x 2.35	Steel shipping container with shelving.	Shelving on one side for spares, tools and consumables with bins for bolts and other small consumables. Hooks for rigging equipment and tools

Figure 3-1 Mobile Office: Site manager, QC etc

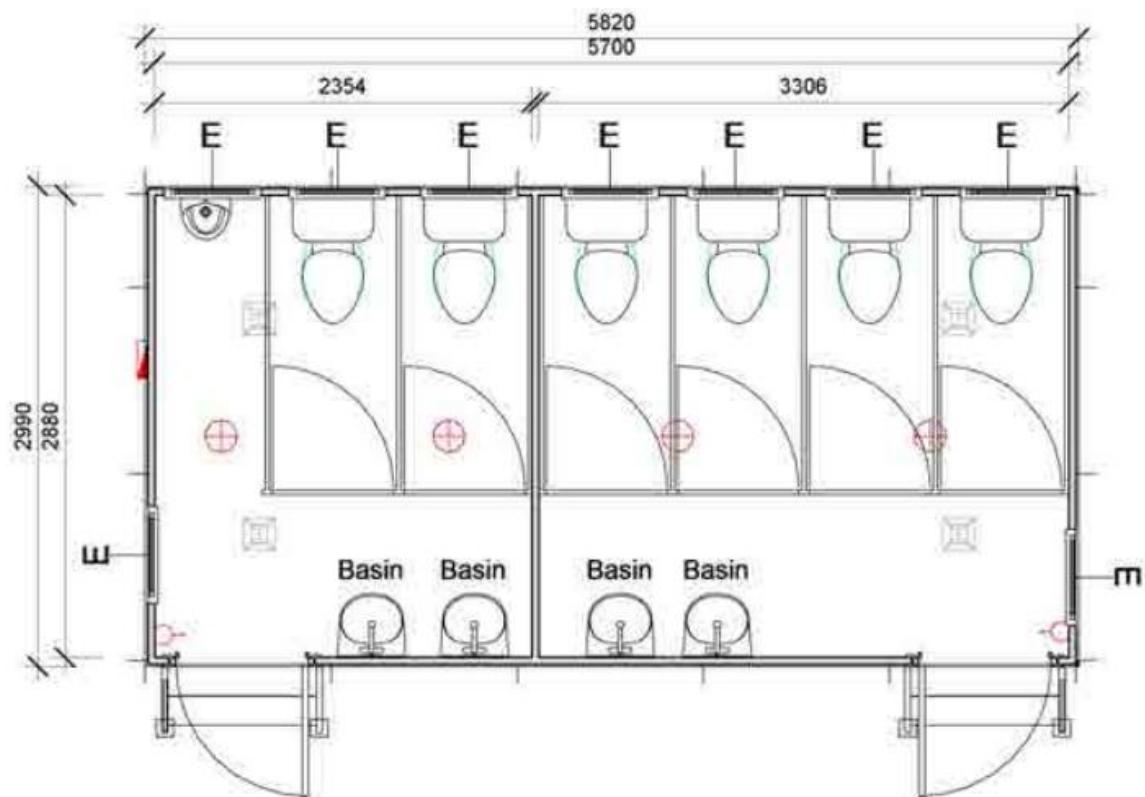
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Figure 3-2 Mobile Kitchen/Boardroom: Labour**CONTROLLED DISCLOSURE**

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Figure 3-3 Ablution facilities for Males and Females

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Figure 3-3 Storage

4 SCOPE OF WORK

4.1 Outage activities

The Contractor will be responsible for all philosophy outage work on the SSC during all outages. This excludes ad-hock opportunity outages which will be conducted by the on-site maintenance teams.

An outage SOW is compiled by the Employers system engineer for Philosophy outages and it should be available to the contractor no later than 6 months before the scheduled start of the outage. A typical example of an Outage SOW is available as part of the reference documentation pack [5]. The bulk of the activities on the SSC Philosophy outage will not change significantly between the different types of outages. Some of the repair or replace activities will however be dependent on the condition of the plant components. Inspect, repair and replacement of the SSC philosophy outage activities will be done on an activity basis. It should be noted that the plant component and condition can change from the date of compilation of the SOW as this is done well in advance of the unit coming down for the outage. The activities listed in Table 3 below is based on activities normally conducted during the outages. Any activity not listed in the table below will be done a cost-plus fee basis. The contractor will be required to submit a proposal for the activity to be conducted, with all the expected cost to be incurred, including but not limited to manpower, equipment and material. The employer will evaluate the proposal and if agreement is reached on the cost, the employer will issue a task order for the

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additional activities/s. The Contractor will be required to submit proof of the actual cost with their invoicing. Manpower cost will be calculated from actual hours worked, approved by the employer and the rate quoted in Table 5.

4.1.1.1 Flexibility with the Start of Outages

- 1 The planned philosophy Outage start-date is stated on the Task Order.
- 2 Due to the severe shortage of energy on the national grid, movement of planned/unplanned Outage dates can take place due to the country's demand for electricity.
- 3 Any movement of planned Outage dates is to be communicated in writing by the *Service Manager* at least 24 hours before the planned Outage starts. Notification of change to the planned Outage date to the *Contractor* before 24 hours before the planned Outage start date will have no claims for compensation.
- 4 A new Task Order is to be issued, which specifies the revised planned Outage start date as soon as the new start date is available.
- 5 The *Contractor* will be entitled to claim actual accommodation, travel and staff expenses incurred, if the *Contractor* received notification of outage movement within 24 hours of the actual start date of the outage as agreed upon in the latest Task Order revision.
- 6 Philosophy outage can also be brought forward if the Unit is down for extensive periods due to mayor unplanned failures

Table 2: Current Outage Schedule

WEEK 16																					
5 Year Outage Listing																					
FromDate		2025/04/22																			
ToDate		2030/04/21																			
Export Date		2025/04/22 14:54																			
OutageID	Outage Code	Station	Unit	Planned/Actual Start Time	Planned/Revised End Time	MW Loss	MW Loss Percent	Outage Description	Status	Planned Duration											
24231	MD02UIR-24-07-2025	Medupi	2	2025/07/24 00:00:00	2025/09/03 23:59:00	720	100	IR3	SCHED	42.00											
24241	MD01UIR-19-09-2025	Medupi	1	2025/09/19 00:00:00	2025/10/30 23:59:00	720	100	IR2	SCHED	42.00											
24205	MD05UIR-07-11-2025	Medupi	5	2025/11/07 00:00:00	2025/12/18 23:59:00	720	100	IR1	ROLLSCHED	42.00											
40453	MD03UGO-14-03-2026	Medupi	3	2026/03/14 00:00:00	2026/06/11 23:59:00	720	100	GO1	ROLLSCHED	90.00											
24230	MD02UGO-01-09-2026	Medupi	2	2026/09/01 00:00:00	2026/11/29 23:59:00	720	100	GO1	ROLLSCHED	90.00											
24197	MD06UIR-11-01-2027	Medupi	6	2027/01/11 00:00:00	2027/02/21 23:59:00	720	100	IR2	SCHED	42.00											
24240	MD01UIR-08-03-2027	Medupi	1	2027/03/08 00:00:00	2027/04/18 23:59:00	720	100	IR3	SCHED	42.00											
24206	MD05UIR-06-05-2027	Medupi	5	2027/05/06 00:00:00	2027/06/16 23:59:00	720	100	IR2	SCHED	42.00											
24214	MD04UIR-10-08-2027	Medupi	4	2027/08/10 00:00:00	2027/09/20 23:59:00	720	100	IR2	SCHED	42.00											
40452	MD05UIR-16-11-2027	Medupi	5	2027/11/16 00:00:00	2028/04/13 23:59:00	720	100	IR3 + FGD Tie in	SCHED	150.00											
44182	MD06UIR-20-01-2028	Medupi	6	2028/01/20 00:00:00	2028/03/01 23:59:00	720	100	IR3	SCHED	42.00											
24233	MD02UIR-05-03-2028	Medupi	2	2028/03/05 00:00:00	2028/04/15 23:59:00	720	100	IR1	SCHED	42.00											
24222	MD03UIR-28-04-2028	Medupi	3	2028/04/28 00:00:00	2028/06/08 23:59:00	720	100	IR1	SCHED	42.00											
40455	MD01UGO-10-08-2028	Medupi	1	2028/08/10 00:00:00	2028/11/07 23:59:00	720	100	GO1	SCHED	90.00											
24215	MD04UIR-20-04-2029	Medupi	4	2029/04/20 00:00:00	2029/05/31 23:59:00	720	100	IR3	SCHED	42.00											
24224	MD03UIR-15-07-2029	Medupi	3	2029/07/15 00:00:00	2029/08/25 23:59:00	720	100	IR2	SCHED	42.00											
24232	MD02UIR-12-09-2029	Medupi	2	2029/09/12 00:00:00	2029/12/10 23:59:00	720	100	IR2 + FGD Tie in	SCHED	90.00											
40451	MD06UGO-18-12-2029	Medupi	6	2029/12/18 00:00:00	2030/03/17 23:59:00	720	100	GO2	SCHED	90.00											

4.1.1.2Philosophy Outage Site Establishment

The *Contractor* will be paid for mobilization and de-mobilization cost for every outage.

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Table 3: Philosophy Outage Work Activities

	KKS No	Component	Task	Activity
Decommissioning and Preservation				
1.	* OHDA10 AF001	Chain	Chain measurement Wear	Before shutting down for PTW, run SSC and stop every 5 m to do chain wear measurements on left- and right-hand chain. Measure length over 3 chain links and length of one interlink. Capture information on chain wear measurement spreadsheet provided and include in the inspection report.
2.	* OHDA10 AF001	Chain	Inspect chain for excessively wear	Before shutting down for PTW run SSC for a full revolution. Inspect chain links and verify wear on <u>each</u> chain link by using chain wear measurement gauges to detect inconsistent, severely worn links. Stop and mark worn chain sections where maximum wear gauge enters for replacement after PTW. Record findings on in the inspection report
3.	* OHDA10 AF001	Chain	Inspect chain for excessively worn master links	While running SSC for full revolution, inspect chain for excessively worn Master links. Stop and mark for replacement after PTW. Add findings to inspection report
4.	* OHDA10 AF001	Flight	Inspect flights for damage or excessive wear	Before shutting down for PTW run SSC for a full revolution and inspect flights for excessively worn flight wear liners, bent, twisted or damaged flights. Stop and mark defective flights for replacement after PTW issue. Inspection is required on all flights on the top trough and then again on all in the bottom trough so that both sides of all the flights are inspected. Add findings to inspection report

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	KKS No	Component	Task	Activity
5.	* 0HDA10 AF001	Conveyor chain and flights	Verify that SSC has no Ash before shutdown.	Insect and verify all ash from boiler washing and cleaning activities have been removed from the SSC after the SSC water has been drained and before PTW is applied. Fine slurry after boiler washing can be very difficult to transport up the incline and as a result it can take excessively long to run the SSC empty. The inspection door on the front left side will have to be opened and the slurry emptied onto the floor
6.	* 0HDA10 AF001	SSC rails and wheels	Clean Rails Wheel and Ash underneath SSC	Clean SSC rails, wheels and clean ash accumulated underneath the SSC prior to movement of SSC to maintenance position.
7.	* 0ETN 61/62/63/64/91 BR 001, * 0PGH 30 BR001	Make-up, Chain washing and cooling water pipes	Disconnect all water pipes	Disconnect the flanges of the following water pipes: Normal and Emergency make-up, Chain washing supply, Cooling water supply and return and Flue Gas de-ashing pumps suction. See drawing 0.84/36369.
8.	* 0HDA10 AF001	SSC structure	Unbolt side doors on the right-hand side of the top trough	Unbolt all the side doors(plates) on the right-hand side of the top trough of the SSC. Jack off doors using jacking bolts and be careful not to damage the rubber gaskets while splitting the doors from the structures. Ensure all of the door hangers are in position and properly secured to allow the door to hang from the boiler to allow SSC to be moved from under the boiler.
9.	* 0HDA10 AF001	SSC structure	Remove Right side splash plate	Remove SSC make-up section splash plate on the right-hand tail section of the SSC for removal of the SSC from under the boiler.

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	KKS No	Component	Task	Activity
10.	* 0HDA10 AF001		Pull SSC out from Underneath the boiler	Lubricate travel wheels of the SSC before moving the SSC. Using tirsors or chain blocks hooked onto the lugs provided on the SSC wheels, pull the SSC into the maintenance position. Verify all wheels are rotating freely. Check discharge chute side while moving and ensure that no hydraulic hoses or instrumentation cables are hooking on the stationary discharge chute.
11.	* 0HDA10 AF001		Compile inspection report	Compile an inspection report with all of the inspection findings and measurements from the pre shut down inspections as well as the inspection done after the SSC is on permit.
Cleaning and Housekeeping Tasks				
12.	* 0ETN80 BR010/11/12/13, AA501/2/3/4/5	SSC Agitation Pump Suction/Discharge /Left & Right Nozzle Supply Pipe Agitation Pump Suction/Discharge /Left/Right/Centre Isolation Valve	Descale and inspect Agitation system pipes and Valves	Remove agitation system pipes, valves and components. Unblock and de-scale the inside of the pipes. Inspect bends and nozzles for wear. Inspect suction manifold for damage, wear or blockage of holes in manifold. Clean and descale manifold. Check for smooth operation of knife gate valves by turning hand wheel. Remove valve and inspect internally for wear on seat and knife. If valve was excessively mechanically tight, inspect seals for damage and knife for scaling, also inspect revolving nut, spindle, and gland packing, where applicable. Clean, descales and lubricate spindle of valves that are still in a useable condition. Add finding to the Inspection report. Replace severely damaged valves, nozzles or bends, where required, as instructed by the Employer. Reinstall piping valves and components
13.	* 0HDA11 BB001	SSC discharge chute and grizzly louvres	High pressure clean discharge chute and grizzlies	High pressure clean the complete SSC discharge chute from the drive shaft area downwards including the grizzlies with an industrial high pressure washer

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	KKS No	Component	Task	Activity
14.	* 0HDA10 AF001	SSC Top and bottom Trough	Clean and descale top and bottom trough	Inspect SSC trough for scale and ash build-up (inside and outside). Remove excessive scaling and ash build-up from SSC trough and external scaling where applicable. Clean the bottom trough at the tail end, specifically where the chain turns 90 degrees upward to the top trough. Remove scaling, ash and metal debris
15.	* 0HDA10 AF001	SSC Top and bottom Trough	Descale hard build- up under chains	Clean ash and hard scaling build-up underneath the chain strands and flight ends on the top and bottom trough, including inclines, using rods or shovels or other appropriate equipment
16.	* 0HDA10 AF001 * 0HDA10 AA571/2	Trough overflows SSC Top and Bottom drain valve	Clean and descale overflows and drainpipes, Inspect and function check drain valves,	Remove drain valves and pipping. Clean and descale top and bottom trough overflow and overflow drainpipes, including entire length of the large HDPE or rubber drainpipes. Check for smooth operation of knife gate valves by turning hand wheel. Remove valve and inspect internally for wear on seat and knife. If valve was excessively mechanically tight, inspect seals for damage or knife for scaling, also inspect revolving nut, spindle and gland packing, where applicable. Clean, descales and lubricate spindle of valves that are still in useable condition. Replace severely damaged valve, where required, as instructed by the Employer. Reinstall piping and valves in the plant. Add finding to Inspection report
17.	* 0HDA10 AF001	Tensioning shaft	Clean tensioning system	Clean tensioning shaft slide mechanism, locking rod and nuts on both sides. Only a wire brush should be used on the tension rods, do not use any lubricants.
18.	* 0HDA10 AF001	SSC Area General	Housekeeping	Keep working area clean while executing activities and removal and transport of removed spares and scrap to appropriate storage or disposal areas, on completion of activities.
19.	* 0HDA10 AF001	Dipper Boxes	Descale dipper boxes	Remove excessive scaling and build-up from dipper plates
Mechanical Tasks				

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	KKS No	Component	Task	Activity
20.	* 0ETN80 AP001	Agitation pump	Remove pump and reinstall	Remove pump, motor and base assembly and transport to the works. Transport refurbished pump assembly from the workshop to the plant and install the pump assembly.
21.	* 0HDA11 BB001	Discharge chute	Inspect discharge chute and Grizzlies	Inspect grizzly blades and discharge chute for abnormal wear. Inspect deflector plate with wear strips for wear. Inspect emergency offloading chutes for sign of excessive wear. Arrange for thickness test on chute if required. Add findings and results to inspection report
22.	* 0HDA11 BB001	Discharge chute	Replace excessively worn grizzly blade	Replace only excessively worn blades where necessary, as instructed by the Employer. Inspect grizzly hinge vesconite bushes inside chute, on the pivot arm for wear, replace if necessary. Replace damaged or excessively worn bushes on the bottom of the Grizzly blades.
23.	* 0HDA11 BB001	Discharge chute	Replace excessively worn Chute deflector plate	Replace the chute deflector plate on the SSC discharge chute if any strip is worn below 5 mm or plate has holes.
24.	* 0HDA11 BB001	Discharge chute, troughs and inlines	Install VRN 500 overlay patch plates (m ²)	Install 10 mm thick VRN 500 patch plates overlayed over worn or damaged areas. This include cutting the plates to size, transporting from stores and to site, rigging into position and seal welding the plates. Area will be calculated to determine final cost
25.	* 0HDA11 BB001	Discharge chute, troughs and inlines	Install VRN 500 window patch plates (m ²)	Install 10 mm thick VRN 500 patch plates by cutting out worn and damaged sections and welding in new plate. This includes cutting out old plate, cutting the new plates to size, transporting from stores and to site, rigging into position and seal welding the plates. Area will be calculated to determine final cost

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	KKS No	Component	Task	Activity
26.	* OHDA10 AF001	Wear liner strips	Measure wear liner strip thickness	Measure the thickness of the top and bottom trough wear strips approximately every 5 m in 3 places (left, centre and right hand). This is done by measuring the height of the strip from the plate at the below the strip bottom of the top of the strip. This can be done by using a steel ruler or alternative a Vernier calliper. Also inspect the general condition of the wear strip and identify any damage strip of excessively worn sections. Add findings and results to inspection report.
27.	* OHDA10 AF001	Wear liner strips	Replace wear strip (m)	Remove worn or damaged wear strip, prepare surface for welding in new strip, cut new strip and weld in new strip. Total running meters installed will determine final cost. Wear strips will possibly have the be reduced in height on the backing plate side to ensure the new strip is not significantly higher than the other liners strips in the same area. This reduction in height will be done in the workshop if the damaged strip area is not too extensive. Intersections of new and old liners strips will have to be trimmed to ensure a smooth transition to prevent SSC flight from getting stuck when they move over this area.
28.	* OHDA10 AF001	Travel wheels	Replace SSC travel wheel	Remove seized travel wheel to workshop/stores for refurbishment. Reinstall refurbished travel wheel.
29.	* OHDA10 AF001	Drive Shaft Cover Plate	Inspect drive shaft cover plate	Inspect Drive shaft round cover plate for damage. Verify that all bolts are secured properly. Arrange for thickness tests on the cover plate. Replace cover plate when less than 5 mm of material is left. Add result and measurement to the inspection report.
30.	* OHDA10 AF001	Drive Shaft Cover Plate	Replace drive shaft cover plate	Position SSC chain so that a master link is in close proximity of the drive shaft. Secure the top and bottom section of the chain on the top and bottom inclines to prevent the chain and flights from slipping down when the chain is split. Split the chain on the master links and remove the chain from the sprocket. Remove the countersunk hold down bolts on the drive shaft cover plate. Remove the cover plate and install a new cover plate. This includes transporting the new plate from the stores and transport of old plate to laydown or scrap steel area.

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	KKS No	Component	Task	Activity
31.	* 0HDA10 AF001	Side and back plates	Inspect top trough for high wear areas	Inspect the SSC top trough, for signs of high wear areas on the side, bottom plates. Arrange for wall thickness test in the high wear area at the sides and bottom of the top trough incline, as well as the back wear plate at the take-up. Repair if less than 5 mm material is left. Add result and measurement to the inspection report.
32.	* 0HDA10 AF001	Dipper Boxes	Inspect dipper boxes	Inspect dipper plates for damaged, wear or excessive gaps at expansion joints. Inspect for missing bolts or plates. Remove excessive scaling from dipper plates. Inspect for bent, worn or broken tie rods on dipper boxes. Include findings in the inspection report.
33.	* 0HDA10 AF001	Dipper Boxes	Replace Dipper box side panel	Remove damaged dipper box side panel. Reinstall new or refurbished side panel.
34.	* 0HDA10 AF001	Dipper Boxes	Replace Dipper box centre joint	Remove damaged dipper box centre joint. Reinstall new or refurbished centre joint.
35.	* 0HDA10 AF001	Dipper Boxes	Replace Dipper end piece	Remove damaged dipper box end piece. Reinstall new or refurbished end piece.
36.	* 0HDA10 AF001	Dipper Boxes	Clean dipper box expansion joint	If gaps are excessive on expansion joints, disassemble joint, clean scaling and reassemble the joint.
37.	* 0HDA10 AF001	Dipper Boxes	Replace dipper box tie-rod	Where dipper box tie rods are damaged or broken, remove tied rod, install new tie rods.
38.	* 0HDA10 AF001	Dipper Boxes	Install dipper box overlay protection plate (m ²)	Weld on a 10 mm 3Cr12 plate overlay on the top of the dipper box Centre joint or other high wear area. Final cost will be based on the final area installed.

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	KKS No	Component	Task	Activity
39.	* 0HDA10 AF001	Top trough side door	Replace side door hanger	Replace or repair the hanger on the top trough side doors.
40.	* 0HDA10 AF001	Structure	Inspect structurally SSC	Inspect SSC structurally for damaged or buckled structural beams or plates. Inspect all welds visually for sign of damage or cracking. Check calming chamber plates for damage and or worn or missing bolts.
41.	* 0HDA10 AF001	Structure	Replace calming plate bolts	Replacing all bolts on the two calming plates at the back of the SSC
42.	* 0HDA10 AF001	Structure	Replace calming plate	Replace damaged plate at the back of the SSC(full plate)
43.	* 0HDA10 AF001	SSC Structure	Paint structure per m ²	Paint any area where paint was removed for thickness testing or affected by welding or where new plates have been installed. One coat rust preventing primer and two final coats. Final cost will be based on the area that was paint, rounded up.
44.	* 0HDA10 AF001	SSC structure	Install Left side splash plate	Remove the Left-hand make-up section splash plate at the tail section of the SSC Install 3Cr12 splash plates at the SSC top trough tail end in the make-up area. Include findings in the inspection report

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	KKS No	Component	Task	Activity
45.	* OHDA10 AF001	Submerged idler wheel assemblies	Replace top submerged Stub shaft Idlers assembly(each)	Remove the top Submerged Idler Wheel (stub shaft) assemblies. Normally all 4 top through submerged stub shafts are replaced during every outage. Clean sealing surfaces thoroughly. Inspect studs for damaged threads or other damage. Clean lightly damaged threads with Die-nut. Cut out severely damaged studs and weld in new studs where required. Install new/refurbished assemblies and tighten 4 nuts on each. Measure centre distances of the idler wheels and compare with the chain centres. Add the right thickness gaskets or omit gaskets based on the difference between the chain and measured wheel centres. Apply sealant if required and install stub shaft and tighten all nuts. Verify wheel centres on final assembly. Ensure speed striker wheel is removed from the old rear idler assemblies and installed on the new rear idler assemblies.
46.	* OHDA10 AF001	Return idler wheel assemblies	Inspect bottom Stub shaft Idlers assembly	Inspect bottom Idler wheel assemblies for collapsed bearings, flat spots, seized wheels, excessive wear and leaking shaft seals. Add inspection result to the report. Replace only if instructed by the Employer
47.	* OHDA10 AF001	Return idler wheel assemblies	Replace bottom Stub shaft Idlers assembly per stubshaft	Remove defective bottom stub shafts, where required. Clean sealing surfaces thoroughly. Inspect studs for damaged threads or other damage. Clean lightly damaged threads with Die-nut. Cut out severely damaged studs and weld in new studs where required. Install new/refurbished assemblies and tighten 4 nuts on each. Measure centre distances of the idler wheels and compare with the chain centres. Add the right thickness gaskets or omit gaskets based on the difference between the chain and measured wheel centres. Apply sealant and install stub shaft and tighten all nuts. Verify wheel centres on final assembly.
48.	* OHDA10 AF001	Chain	Replace/cut our chain sections with high wear (meters of chain pair)	Replace inconsistently worn chain section identified and marked in the pre-shutdown chain inspection with used chain with approximately the same wear, where possible. Lengths for chain pairs replaced or cut out will be used for final costing (will be rounded up the nearest meter).

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	KKS No	Component	Task	Activity
49.	* OHDA10 AF001	Chain	Replace master link	Remove master link and replace with a new/existing master link.
50.	* OHDA10 AF001	Drive Shaft	Inspection Drive shaft	Clean the area around the bearings thoroughly. Remove top part of bearing housing and inspect drive shaft bearings internally for any sign of damage or corrosion. This should be done in the presence of the system Engineer. The utmost care must be taken to prevent any dust from entering the open bearing. Photographic evidence should be taken during bearing inspection, and it should be added to the inspection report. Add finding to inspection report
51.	* OHDA10 AF001	Drive Shaft	Replace drive shaft bearing	Remove all loose dust in the drive area from the structures, walkways, chutes and beams including lifting beams. Washing of the area would be the preferred method of cleaning. Remove top support bracket of the bearing to be replaced. Jack up drive shaft up a few mm in the area of the damaged bearing. Remove top part of bearing housing, remove old bearing. Replace felt seals of the existing housing with oiled felt, if required. Only replace the housing where the old housing is damaged or badly corroded. During installation of the new bearing the utmost care should be taken to limit the exposure of the new bearing to the open environment. This is normally a fair amount of dust in the air during outages and care should be taken to cover the area of the bearing that is not worked on. Installation should be done strictly according to the OEM instructions.
52.	* OHDA10 AF001	Tail/Tensioning Shaft	Inspect Tail tensioning shaft	Clean the area around the bearings thoroughly. Remove top part of bearing housing and inspect tail tensioning shaft bearings internally for any sign of damage or corrosion. This should be done in the presence of the system Engineer. The utmost care must be taken to prevent any dust from entering the open bearing. Inspect the guide wheels for damage of excessive wear. Photographic evidence should be taken during inspection, and it should be added to the inspection report. If any damaged bearings or worn/damaged guide wheels are found, the shaft has to be replaced with the spare tension shaft assembly.

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	KKS No	Component	Task	Activity
53.	* OHDA10 AF001	Chain	Replace chain	Replace chain and if the chain wear measurements indicate that the chain wear is more than 5 %. This is done by unhooking the flights from the chain, removing the old chain, installing the new chain and hooking the flight back in. Apply for a sanction for test on the SSC drive and run the SSC to position the next section of chain to be replaced. This is repeated until the full chain is replaced. The full chain consists of 7 off 13.8m matched pair sections and one matched pair 7.56 m strand to make up the 104.16 m nominal length of the chain on each side. 16 master links is used to join the chain the strands. The chain is replaced in matched pairs with one strand of the matched pair on the left and one on the right. There is no need to cut the new chain and this is not allowed. Ensure 0% wear sprocket teeth are installed with the new chain. If there are chain section that the engineer has indicated should be stored for future use, the chain should be clearly marked with the wear percentage and transported to a storage area designated for this purpose
54.	* OHDA10 AF001	Flights(Scrapers)	Replace flight (each)	Replace damaged, bent or severely worn SSC flight or if removal and replacement of the flight is required for any other activity. This normally requires de-tensioning of the chain and re-tensioning of the chain after the flight have been replaced.
55.	* OHDA10 AF001	Flights (Scrapers)	Replace flight (all 218)	Replace full set of 218 flights. This is done by de-tensioning the chain, unhooking the flights from the chain, removing the old flights, installing the new flights and hooking the flights back in. Apply for a sanction for test on the SSC drive and run the SSC to position the next section of flights to be replaced. This is repeated until all the flights are replaced.
56.	* OHDA10 AF001	Chain Drive Sprocket Teeth	Inspect sprocket teeth for looseness	Inspect the sprocket teeth, before removal, for any loose teeth on the sprocket hub. This is teeth that can be moved with the hand or teeth that was noticed to be moving in the hub during running.. If any loose teeth are found, and the hub holes are oval or the clamping surfaces is visibly worn, the drive shaft has to be replaced with the spare drive shaft assembly. Add findings to the inspection report

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	KKS No	Component	Task	Activity
57.	* OHDA10 AF001	Drive Shaft	Replace complete drive shaft	This activity will only be done if instructed by the Employer. Request the Employer's hydraulic contactor to remove the hydraulic pipe from the hydraulic motor and to plug the ports and pipes. Jack off planetary gearbox by rigging it on the crawl beam and using a special jacking plate and bolts provided by the employer. Place the gearbox on the access platform grating. Split chain on the masterlinks on each side and remove the drive shaft cover wear plate. Remove drive shaft split bearing top support brackets and cut chute top side plates to enable the removal of the shaft complete with the bearing and housing. Install spare drive shaft (complete with bearings, housings and Sprockets). Replace drive shaft cover and install bearing support top part. Reinstall the gearbox and request re-connection of the hydraulic pipes. Weld on angles iron back-to-back with matching holes and bolts and nuts, where the side plates were cut. This will enable the side plates to be bolted off and back in future.
58.	* OHDA10 AF001	Chain Drive Sprocket Teeth	Replace sprocket teeth	Position SSC chain so that a master link is in close proximity of the Drive shaft. Secure the top and bottom section of the chain on the top and bottom inclines to prevent the chain and flights from slipping down when the chain is split. Split the chain on the master links and remove the chain from the sprocket. Remove nuts and bolts on the accessible teeth using spanner, or impact wrenches. Under no circumstances should the nuts be cut off or the bolts be cut out, using an acetylene cutting torch, as there is a high risk on cutting the hub surface or bolt holes. In extreme case, permission has to be given by the system engineer, and the use of a cutting torch will only be allowed if the System Engineer or an Eskom QC delegated by the System Engineer is present. Remove teeth, and clean clamping surfaces and bolt holes with medium grit (>100) sandpaper. Lightly oil holes and clamping surfaces. Install new teeth, lubricate threads and nut underside with Molycote G-Rapid Plus. Tighten the nuts and torque the nuts to specification. Apply for a sanction for test on the SSC drive and run the SSC to position the next section of teeth to be replaced. This is repeated until all the teeth are replaced. On completion of the installation, the system Engineer should be called to witness the torquing of all 36 of the sprockets bolts. Sprocket teeth are replaced when a new chain is installed (0% wear teeth) or with an increased PCD sprocket if wear measurement results indicate the average chain wear is above 1.8%.

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	KKS No	Component	Task	Activity
59.	* 0ETN61/ 62/63/59 AA101-M01	Make-up Water Actuators and Fire Water back-up make-up	Remove and replace make-up water valves with electric actuators	Arrange with electrical and C&I section to disconnect actuator electrically. Remove actuator from valve and remove make-up valve. Inspect valve for ease of operation and check disc and seat for damage. Replace if required. Transport actuator to the actuator section for servicing of the actuator. Install valve and install serviced or new actuator on the valve. Test operation of the valve actuator by mechanically opening and closing the valve using the handwheel. Ensure valve position indicator is set correctly. Request electrical reconnection of the actuator and test operation and ensure open and closed limits when valve is open or closed. Confirm status with control room. Ensure valve is not passing when closed
60.	* 0ETN 64 BR 502 to 505,	Chain washing	Install Chain Washing Nozzles	Install new chain washing nozzles where current nozzles are missing
61.	* 0ETN 64 BR 502 to 505,	Chain washing and Cooling water piping	Replace chain washing and cooling water pipes	Install stainless steel flanges, nipples and valves on chain washing and cooling water tap-off point. . Replaced Galvanised piping with HDPE pipes and compression fittings. Weld in stainless steel pipes where chain washing pipes goes through the sides of the top trough. Install stainless steel fitting inside the trough, just before the nozzles (until all Units are done)
62.	* 0ETN 64 BR 502 to 505,	Chain washing and Cooling water piping	Install compression elbow	Replace or reinstall compression elbow
63.	* 0ETN 64 BR 502 to 505,	Chain washing and Cooling water piping	Install compression T-piece	Replace or reinstall compression T-Piece
64.	* 0ETN 64 BR 502 to 505,	Chain washing and Cooling water piping	Install HDPE pipes (m)	Replace and install new HDPE pipe. Final cost will be based on the total meters replaced, rounded up to the nearest meter.

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	KKS No	Component	Task	Activity
Recommission and Testing				
65.	* 0HDA10 AF001	SSC structure	Move SSC back	Move SSC back into position under the boiler, using tirsors. Check discharge chute side while moving and ensure that no hydraulic hoses or instrumentation cables are hooking on the stationary discharge chute. Ensure SSC discharge chute is aligned centrally with the fixed discharge chute on the tail end of the Coarse Ash Conveyor
66.	* 0HDA10 AF001	SSC structure	Reinstall side doors	Reinstall all side doors on the right-hand side of the top trough ensuring gasket are properly installed. Before installation of side plates ensure all jacking bolts are removed and threads are clean and flush with inside surface. Also install SSC make-up section splash plate on the right-hand side.
67.	* 0ETN 61/62/63/64/91 BR 001, * 0 PGH30 BR001	Make-up, Chain washing and cooling water pipes	Reconnect water pipes	Reconnect the flanges and fitting of the following water pipes: Normal and Emergency make-up, Chain washing supply, Cooling water supply and return and Flue Gas de-ashing pumps suction. See drawing 0.84/36369
68.	* 0HDA10 AF001	SSC structure	Test Run SSC	Take sanction for test and test run the chain conveyor for at least two full revolutions. Verify that the chain runs correctly over the sprockets and that all flights, master links and chain sections marked for replacement was indeed replaced.
69.	* 0ETN 61/62/63/64/91 BR 001, * 0PGH 30 BR001	Make-up, Chain washing and cooling water pipes	Inspect water pipes for leaks.	Clear the PTW on all the water systems and verify that there are no leaks present on the fittings or flanges. Ensure that all make-up valves operate correctly from the Control Room. Repair any leaks

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	KKS No	Component	Task	Activity
70.	* 0HDA10 AF001	SSC structure	Inspect trough for leaks	Request control room to fill the SSC to the required level and verify that the side doors and stub shafts are not leaking. Repair leaks
71.	* 0ETN80 AP001	Agitation pump	Test run Agitation pump and check for leaks	Verify that the agitation pump and piping is not leaking and test run the agitation system for 5 minutes, verifying the system does not leak under pressure
72.	* 0HDA10 CG301&2	Grizzly Hydraulics	Test operation Grizzly	Operate the grizzly hydraulics and verify the grizzlies operate correctly and closes completely. Verify that grizzly hydraulics stops and activated limits when moved to Coarse Ash Conveyor and Emergency Offloading positions
73.	* 0ETN 64 BR 502 to 505,	Chain washing	Verify Chain washing nozzles	Verify that chain washing nozzles are spraying correctly and unblock any blocked nozzles. Ensure that sprays are balanced on all 4 nozzles
74.	* 0HDA10 CS901&2	Rotation Sensors	Verify Rotation Sensors	Verify that rotation sensors left and right are indicating movement correctly in control room after stub shaft replacement
75.	* 0HDA10 AF001	SSC overflow and drainpipes	Reconnect overflow pipes and inspect	Reconnect the HDPE or rubber drainpipes and let SSC overflow by requesting the control room to opening up the make-up valve on manual. Verify that there are no leaks on the overflow drainpipes. Repair any leaks

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General Notes:

- All activities above include transport of the equipment from the stores to the plant, rigging in and out of the components and removal of the old components to the area designated for refurbishable items or the appropriate scrap area.
- The contactor supplies all the tools to execute the activities above.
- The contractor supplies all of the welding and cutting consumables for all cutting and welding activities and includes it in the pricing of the activities where applicable.
- The SSC is a wet scaling environment and bolts can be difficult to remove. In most case the bolt, nuts and washers, and where applicable, pipe gaskets, on the water pipes and trough plates and doors will most probably not be re-usable, and the contractor will have to replace most of the bolts, nuts, washer, and pipe gaskets an inspection manhole cover gaskets as part of the SOW. These consumables should be included in the pricing of the activities and the contractor should ensure that these items are sources and delivered to site on time. It will also include sealants, where required. This excludes the side door rubber seals which is a stock item and will be withdrawn form stores. Only hot dipped galvanised bolts, nuts and washer will be used for pipes flanges, valves and the trough plates and doors. **Black or electroplated bolts and nuts will not be accepted**

4.1.1.3 The Contractor's plan for the service

1. The *Contractor* submits a program in MS Project / Primavera format (soft copy Format) for each outage
2. The program includes:
 - a. Fully Sequenced Activities
 - b. Durations in hours
 - c. Predecessors
 - d. Successors
 - e. Total float
 - f. No constraints (linking to be done properly)
 - g. No resources
 - h. No unnecessary calendars (remove all)
 - i. No empty lines and open ends
 - j. Critical Path(s)
3. Daily feedback on progress required for duration of each task order program
4. The *Contractor* draws up a Quality Control Plan prior to commencement of the work, for approval by the Employer. The *Employer* and the *Contractor* agrees on hold and witness points.

4.1.1.4 Outage Management meetings

Regular meetings of a general nature may be convened and chaired by the Service Manager as indicated in Table 4 below:

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Table 4: Outage Meetings

Title and purpose	Approximate time & interval	Location	Attendance by:
Scope clarification meetings	From 18 months before start-date of an outage	Medupi Power Station	Site Manager, Supervisors, System Engineer, Outage coordinator and Quality Inspectors
Outage Kick-off meeting	Just before start-date of an outage	Medupi Power Station	Site Manager, Outage Co-ordinator
Overall Outage contract progress and feedback	Daily	Medupi Power Station	Employer, Contractor and Supervisors
Daily outage Technical meeting	Daily	Medupi Power Station	Site Manager, System Engineer, Outage coordinator and Quality Inspectors
Gemba / Safety Plant Walk	Saturdays/Sundays during Outage	Medupi [Power Station	Safety Officer
Safety meeting	Weekly during Outage	Medupi Power Station	Safety Officer
Assessment meetings	After completion of each task order	Medupi Power Station	Site Manager, System Engineer, Outage coordinator
Post-mortem meeting	After outage completion	Medupi Power Station	Site Manager, System Engineer, Outage coordinator and Quality Inspectors

1. Meetings of a specialist nature may be convened at times and locations to suit the Parties.
2. Records of these meetings shall be submitted to the *Service Manager* by the person convening the meeting within five days of the meeting.

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3. All meetings shall be recorded using minutes or a register prepared and circulated by the person who convened the meeting.
4. Such minutes or register shall not be used for confirming actions or instructions under the contract as these shall be done separately by the person identified in the *conditions of contract* to carry out such actions or instructions.

4.1.1.5 Outage Documentation control

1. Safety files to be submitted and approved before outage work commence as per client requirements, at least one month in advance for outages.
2. The *Contractor's* Outage safety file will be handed over to the *Service Manager* after each outage
3. The *Contractor's* Safety File will be kept up to date and audited monthly to cater for Outages. It is the *Contractor's* responsibility to arrange the appointments with the Medupi Safety officers.
4. All NEC standard forms should be used e.g. Task orders, Early Warnings, Defect certificates and Assessments.
5. The *Contractor* is responsible to plan the supply of the documentation during the various project stages and to provide the documentation in accordance with the *Contractor* Document Submission Schedule (CDSS). A document is thus any written or pictorial information describing, defining, specifying or certifying activities, requirements, procedures or results.
6. The *Contractor* submits all documentation on a formal transmittal form to the *Service Manager*.
7. All manuals, documents, drawings and engineering documentation shall be presented in British English in both software and hardware.
8. All Communications will be filed and kept on site as it is crucial to have the correct communication structures. These communication documents are to adhere to the NEC 3 Term Service Contract communication requirements.
9. Budget quotation, Schedules with manpower plan and Quality Control Plans for outage work to be submitted one week after SOW submission/SOW clarification
10. Compensation for Occupational Injuries and Diseases (COID) Certificate and letter of good standing must be valid at all times and submitted to the *Service Manager* at each anniversary of the contract. These documents are to be submitted to the Eskom vendor database by the Contractor, before they expire.
11. Two hard copies of the completed data packs submitted to the *Service Manager*. An Electronic copy of all reports to be provided on CD/ DVD
12. Data Packs should be submitted within 60 Days after an Outage
13. WPS supported by a valid WPQR/PQR shall be submitted and approved before any welding work on Eskom plant. Eskom shall reserve the right to review a WPQ, WPQR/PQR and associated weld maps prior to commencement of fabrication

4.1.1.6 Outage *Contractor's* management, supervision and key people

1. The *Contractor* shall appoint a trained Site Supervisor who shall manage all contract and technical related issues. Proof of experience and qualifications of the *Contractor* site Supervisor

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must be submitted within one week of the contract start date. Change to this key person shall be communicated in writing within one Month of such change to the *Service Supervisor*.

2. The *Contractor* site Supervisor to be available after hours telephonically. Where the *Contractor* site Supervisor is not available due to excessive hours worked, leave or Illness a suitably qualified alternate must be made available.
3. The *Contractor* site Supervisor must be able to communicate satisfactorily in English and have formal education as per Eskom Job description requirements. If at any time, it is found that the *Contractor* site Supervisor ability to either supervise the workers, practice good communication skills (verbal or written) or exercise competency is lacking, the *Service Supervisor* may give instruction for the removal of such person from site.
4. The *Contractor* Quality Control Technicians shall be trained and meet all requirements as per attached Job Profile Appendix A. Proof of qualifications and experience of the Quality Control Technicians must be submitted before the contract start date.
5. The *Contractor* shall ensure that at least 4 people are authorized as Responsible Person (RP), in terms of the Eskom Plant Safety Regulations (PSR) within 6 months of the contract start date. As authorisations are valid for two years only, the *Contractor* must ensure that their personnel are re-authorised before the authorisation lapses. The necessary training and evaluations will be provided by Medupi free of charge and the *Contractor* employees must be available to attend, when the course is scheduled.
6. All key people undertaking work shall be appropriately trained, Qualified, Skilled and competent to perform such work and proof thereof must be submitted. Incidence of poor quality work and non-adherence to site regulations and procedures will prompt the Employer to request the immediate and permanent removal of such person from all site activities.
7. Qualification and Qualified, are to be interpreted according to the minimum requirement as per the Occupational Health and Safety Act firstly and then Eskom's "job profile" for positions within the Contractor's organizational structure and be supported by Eskom's "Recruitment and selection procedure" Unique Identifier: 32-1023.

5 Estimate Manpower Number Requirements

The maximum manpower numbers envisaged for this contract is indicated in Table 5 below. For the purpose of determining the total contract value these numbers will be used. It should however be noted that these are the maximum envisaged manpower number and that contract manpower numbers will be negotiated during the final contract negotiation. Task orders will be issued based on the agreed manpower numbers. Any additional manpower will only be mobilised if instructed to do so by additional task orders issued by the employer. Task orders will also be issued for the Skill, the number off and the duration of ad-hoc additional personnel required.

Table 5: Envisaged skills and maximum Manpower number for Daytime and Night shift

	Resource	Quantity Dayshift	Quantity Night	Estimated number	Estimated Ave days worked	Estimated Ave days worked
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				of Outages	per outage - Dayshift	per outage - Nightshift
1.	Site manager	1	0	20	45	0
2.	Supervisor	1	1	20	45	10
3.	Quality Controller	1	0	20	45	0
4.	Safety Officer	1	1	20	45	10
5.	Project Planner	1	0	20	45	0
6.	Material Controller	1	0	20	45	0
7.	Mechanical Fitters	4	2	20	45	10
8.	Mechanical Rigger	1	1	20	45	10
9.	Rigger Assistants	2	1	20	45	10
10.	Semi-Skilled Labour	14	7	20	45	10
11.	Boilermaker	4	2	20	45	10
12.	Welder	4	2	20	45	10
13.	Welding Engineer	1	0	20	2	0
14.	Subtotal	34	17	20		

Table 6: Spares and consumables provision

	Description	Quantity	Provision per Outage	Estimated number of Outages
15.	Spares and consumables	1	R1 Mil	20

Table 7: Envisaged Mobile Equipment

	Description	Quantity	Estimated number of Outages	Estimated Ave days per outage required
16.	Forklift	1	20	45

Table 8: Envisaged tools and equipment

	Description Tools and Equipment	Number	Number of replacements during contract

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17.	Tirfors 5-ton	4	1
18.	Chain blocks 3 tons 10 m lift	2	2
19.	Chain blocks 3 tons 4 m lift	6	2
20.	Lever hoist 3 tons 4 m	4	2
21.	Lever hoist 1.5 tons 4 m	4	2
22.	Slings 3-ton 1 m	4	4
23.	Slings 3-ton 1.5 m	4	4
24.	Slings 3-ton 2 m	4	4
25.	Slings 3-ton 3 m	4	4
26.	Wire sling 3-ton 0.5 m	4	4
27.	Wire sling 3-ton 1 m	4	4
28.	3-ton shackles	10	2
29.	10-ton shackles	10	1
30.	Large angle grinder	2	4
31.	Baby angle grinder	2	4
32.	Large Acetylene cutting torch set	1	2
33.	Portable inverter Welding machines 250 Amp	2	4
34.	30 m electrical extension cord	10	4
35.	Electrical Impact wrench	1	2
36.	100W led lights	4	4
37.	Large Toolbox expandable steel box	2	2

6 Authorisation

This document has been seen and accepted by:

Name	Designation
Xolani Nalomo	Submerged Scraper Conveyor Engineer
Louis Snyman	Senior Engineer BMH Medupi
Rabelani Makananise	Outage Execution Manager (Acting)
Thabang Nkosi	Outage Coordinator (Acting)

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7 Revisions

Date	Rev.	Compiler	Remarks
June 2025	1	Thabang Nkosi	New document for the SOW for SSC outage execution contract

8 Development team

The following people were involved in the development of this document:

Louis Snyman

Xolani Nalomo

Thabang Nkosi

9 Acknowledgements

N/A