	Works Information	Kusile Power Station Project
---	-------------------	------------------------------

Title: **Provision of Commissioning Management Services** Document Identifier: **366-479058**

Alternative Reference Number: **N/A**

Area of Applicability: **Kusile Power Station Project**

Functional Area: **Kusile Power Station Project**

Revision: **1**

Total Pages: **12**

Next Review Date: **N/A**


Disclosure Classification: **Controlled Disclosure**

Compiled by:



Sebongile Foku
Middle Manager
Commissioning
Kusile Power Station Project

Agreed by:



Chris Barclay
Senior Manager
Projects Oversight/Delivery
Kusile Power Station Project

Authorised by:



Zandi Shange
General Manager
Kusile Power station Project

Date: 05/08/2022

Date: 2022-08-10

Date: 2022/08/12

Part 3: Scope of Work

Document reference	Title	No of pages
C3.1	This cover page	1
	<i>Employer's Service Information</i>	9
	Total number of pages	10

Contents

Part 3: Scope of Work	2
1 Description of the service	4
1.1 Executive overview	4
1.2 Provision of Commissioning service	4
1.2.1 Commissioning services will include the following:.....	4
1.3 Reports.....	6
1.3.1 Abbreviations	6
2. Specification and description of the services.....	6
3. Constraints on how the Service provider provides the Services.	7
4. Management meetings	7
5. Records and forecasting of expenses	7
6. Invoicing and payment	7
7. Quality Management	8
System requirements	8
Information in the quality plan	8
8. The Parties use of material provided by the Service provider	8
Employer's purpose for the material	8
9. Safety and Health Management	8
10. Working on the Employer's property	9
Employer's entry and security control, permits, and site regulations	9
People restrictions, hours of work, conduct and records	9
11. Things provided by the Employer	9
12. Skills development for project.....	10
13. Conflict of Interest	10

1 Description of the service

1.1 Executive overview

Eskom Kusile Project requires Commissioning and Construction management services. The service provider to be appointed will assist Eskom in Commissioning management of the outstanding works to get the remainder of the Kusile Project commercialised. The services are required urgently. The resources provided by the service provider will work under the direction and guidance of Eskom Commissioning Management staff. They will form part of an integrated team that will use Eskom's systems and procedures.

The overall responsibilities of the service provider will be as follows:

- a) Provide advisory and support services for the execution of the commissioning activities
- b) Ensure compliance with Plant Safety Regulations (PSR), Fossil Fuel Fire Regulation (FFFR), Operating Regulations for High Voltage System (OHRVS) and Master Installation Electrician (MIE).

1.2 Detailed Scope of work

1.2.1 Commissioning services will include the following:

- Preparing and issuing permits to work on a 24/7 basis (AP/RP)
- Being the person in charge of the plant as per the Fossil Fuel Fire Regulation (FFFR)(AP)
- Providing 24 hours coverage for the running non-commercial plant on site (AP/RP)
- Responsible for energizing all new plant (AP/RP)
- Issuing sanctions for test of all new motors (AP/RP)
- Controlling and issue permits for radiation work (RPO)
- Controlling of radiation isotopes (RPO)
- RP's at Kusile also support the contract package teams that have plants that are not handed over including brush gear inspections and the maintenance of lights in the units.
- RPs are responsible for accepting permits to work after the safety clearance for phasing the electrical test.
- Walk down and lock out system after safety clearance. (AP/RP)
- To ensure that pre walk downs are carried out prior to the installation to advice accordingly (guidance) in terms of material to be used and on how the installation should be executed (supervision) in accordance with the health and safety standards (MIE)

- Populate equipment register/component list for hazardous locations with the contractors' input and making sure is updated before hand over to the Client (MIE)
- Monitor Contractors' construction power (DB's) as per OHS Act requirements and ensure the valid certificate of compliance is issued (MIE)
- Ensure that the Contractors comply with the Electrical Installation Regulations and issuing of Hazardous COC's as per the OHS Act (MIE)
- Ensure that no repairs are affected on any piece of electrical equipment unless is rendered dead (MIE)
- Ensure that under any normal working conditions where there is a possibility of static electricity formation, necessary measures are taken to prevent the formation of electric sparks (MIE)
- Verify that the equipment is correctly installed as per the IA certifications, serial numbers and Ex ratings and ensure that the equipment is in the correct zone as per the Area Classification drawings (MIE)
- Follow up on the electrical machinery installed in hazardous location to ensure that they are visually inspected and tested periodically at intervals not exceeding two (2) years (MIE)
- Flush various systems in preparation for commissioning (Auxiliary Cooling, HRD (SSC Supply) Waste -Water treatment and Compressor plant) (JS)
- Install temporary piping and strainers for system flushing (JS)
- Install "jumpers" for system flushing (JS)
- Clean strainers and backwash heat exchangers on Auxiliary cooling (JS)
- Field operators support for all BOP plant under commissioning (JS)
- Operating of valves and equipment during commissioning, under the supervision of Eskom Commissioning personnel (JS)
- Check for pump / motor vibrations and bearing temperature for plant under commissioning (JS)
- Prepare plant standby for commissioning activities (JS)
- Housekeeping duties on all BOP commissioned plant (JS)
- Routine checks on plant in-service under commissioning (JS)
- General support as labourers for Commissioning BOP (JS)
- Unblocking of Water sample lines for Analysers (Steam blow, ACC Clean synch) (JS)
- Completes daily, weekly, and monthly checklists on the commissioning plant equipment maintenance procedures and maintains records of scheduled maintenance procedures (JS)

- Maintenance of document management systems through the management of documentation throughout the information lifecycle (JS)
- Liaison with relevant role players on operational business undertakings relating to document management including projects (JS)
- Provide administrative support in respect of documents and records (JS)
- Minimum required AP's: 4, RP's: 2, MIE's 2 and JS's: 8.

1.3 Reports

The following report shall be submitted:

- Daily, Weekly, and monthly reports

1.3.1 Abbreviations

[1] Abbreviation	[2] Description
AP	Appointed Person
HV	High voltage
MIE	Master Installation Electrician
KET	Kusile Executive Team
HV	High Voltage
JS	Junior Supervisor
LV	Low Voltage
RP	Responsible Person
PSR	Plant Safety Regulations
ORHVS	Operating Regulations for High Voltage System
URS	User Requirement Specifications
TET	Technical Evaluation Team
SES	Site Environmental Specification
CEMP	Construction Environmental Management Plan
SSA	Site Specific Agreement
WTW	Water Treatment Works

2. Specification and description of the services

The *Service provider* will provide skilled personnel of the required discipline levels for a 12 months period.

The detailed activities to be executed and deliverables to be produced will be agreed between the *Employer* and *Service provider* during the contract.

3. Constraints on how the Service provider provides the Services.

The *Service provider* ensures that the people provided to undertake the *Services* have the necessary competence and availability to effectively and efficiently perform the roles and tasks to which they are assigned. Should at any time the *Employer* consider this not to be the case then the *Employer* may inform the *Service provider* and request the *Service provider* to take action to address the situation. If, in the sole discretion of the *Employer*, the matter is not resolved satisfactorily by the end of the fifth working day thereafter, then the *Employer* may request that the individual be removed or replaced, and the *Service provider* shall at no cost to the *Employer* comply forthwith.

4. Management meetings

Meetings of a general nature may be convened and chaired by the *Employer's Agent*.

5. Records and forecasting of expenses

Records and forecasting of expenses will be required on monthly bases.

Hourly claimed rate should be supported by timesheets and the invoices/receipts for all claimed expenses to be reimbursed at cost. In addition, the following must be done:

- The timesheets must be signed by the relevant assigned manager in the relevant project.

6. Invoicing and payment

The *Service provider* shall address the tax invoice to:

Eskom Holdings SOC Limited
Kusile Power Station
Suite 46
Postnet
Highveld Mall
Emalahleni
1035
Attention: Mafanetza Madamalala
Tel: 013 699 7397

ONLY ORIGINAL INVOICES WILL BE ACCEPTED

Vat 4740101508

The following must be stated on the Tax Invoice:

- Name and address of the *Contractor* and the Employer:
- The contract number and title
- *Contractor's* VAT registration number
- The *Employer's* VAT registration number 4740101508.
- Description of service provided for each item invoiced based on the Price List.

Total amount invoiced excluding VAT, the VAT and the invoiced amount including VAT

7. Quality Management**System requirements**

The *Service provider* and all Sub-consultants shall comply with the requirements listed in Employer's standard document, 'Quality Management System (QMS) 58, for all the Employer Quality requirements.

The Service provider shall develop and submit a Project Quality Management System and Plan (PQMP) for this contract. This PQMP shall describe the project quality requirement and shall also describe the requirement for continued compliance to the requirement of ISO 9001

Information in the quality plan

The *Service provider* shall provide all information, material and records required to comply with the Eskom Quality Management System and such further information, material and records as may be requested by the *Employer* from time to time.

8. The Parties use of material provided by the Service provider***Employer's purpose for the material***

Clause 70.1 states that the *Employer* has the right to use the material provided by the *Service provider* for the purpose stated in the Scope. Such material will amongst other things be used by the *Employer* for strategic planning.

9. Safety and Health Management

The *Employer* expects the *Service provider* to engage in safety culture initiatives in line with the Eskom Life Saving Rules, Safety and Quality Requirements Standard.

The *Service provider* and all sub-consultants shall comply with the requirements listed in Employer's standard document, 'Eskom Safety, Health, Environment and Quality Policy 32-727', for all the Employer Health and Safety requirements.

The *Employer* places emphasis on the provision of a comprehensive Health and Safety file per the attached checklist for this contract. The Project Health and Safety file shall comply with the requirements of the OSH Act.

The *Service provider* shall develop and submit a Health and Safety file for this contract. This shall describe the project health and safety requirement and shall also describe the requirement for continued compliance to the requirement of the OSH Act.

10. Working on the Employer's property

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

- The Service provider shall comply to the Employer's entry and security control, permits, and site regulations
- All employees working on the Eskom Power Station Site must complete induction before work can start.
- Personal Protective Equipment (PPE) must be worn at all-times except in the PPE free zones.
- All employees must comply to Eskom Life Saving Rules:
 - Open, isolate, test, earth, bond and/or insulate before touch.
 - Hook up on heights
 - Buckle Up
 - Permit to work
 - Be sober
 - No reversing without a spotter

People restrictions, hours of work, conduct and records

The *Service provider* shall keep records of his people working on the *Employer's* property, including those of his Sub-consultants. The *Employer's Agent* shall have access to these records at any time. These records may be needed when assessing the monthly payment.

11. Things provided by the Employer

The *Employer* shall provide workspace for the *Service provider* use during performance of the services at any of the Eskom offices.

12. Skills development for project

The *Service provider* shall provide annually a 'Skills Transfer Plan', providing skills development, mentorship and coaching to the *Employer's* personnel. Such plan should detail;-

- 'On-the-job-training', by working closely with and/or amongst these resources to enhance the career development of the *Employer's* personnel.

13. Conflict of Interest

During the course of executing its mandate, the Service provider (SP) and people appointed by the SP will be exposed to Eskom's highly sensitive proprietary information, including but not limited to strategies proposed, considered and adopted for the Works under each Package, these include defence strategies proposed, considered and adopted against each of the Contractors, counter-claims considered and pursued against each of the Contractors, Eskom internal communication, communication between Eskom and its stakeholders, position papers and memoranda prepared in respect of any matter. The Service provider agrees that it will not, for the duration of its engagement and thereafter, assist any Contractor in acting against Eskom in any of the projects that fall within the Consultant's scope.

Further to the above all resources must comply to Eskom's Conditions of Service and sign non-disclosure agreements