

Marikana Operations

– K4 shaft:

PUMPING GROUT AND RELATED WORK AS PER SCOPE OF WORK

REFERENCE NO:

Coupa #



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COMMITMENT



ACCOUNTABILITY



RESPECT



ENABLING



SAFETY

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PART A Revisions

Revision	Description of Changes	Date Issued	Updated By

PART B Introduction

This scope of work is for the complete operation and maintenance of the K4 grout plant and associated equipment to ensure all required pumping of grout at K4 shaft is in accordance with operational requirements

Unless otherwise expressly stated, the supplier provides all labour, supervision, consumable, materials, fasteners, equipment, tools, and each and every item of expense necessary to complete the work in line with the relevant shaft's Schedule of Ownership and Schedule of Responsibilities.

- The Employer is committed to improve the existing grout plants operations and maintenance in order to provide a safe, more efficient and cost effective service to the operating shafts. The Operation of the grout plants is one of the Employer's highest operational and safety risks underground and therefore demands commitment and dedication by the successful Contractor. The scope of service includes the operation and maintenance of the K4 shaft grout plant.
- The tenderer will be required to inspect, evaluate and review the Affected Property (grout plant) and the existing method of operation in order to submit their tenders to accommodate their proposed method of operation in providing the service. This process will require the inspection of the Affected Property (facilities and Plant on surface and underground). Should it be required that equipment be replaced and/or the operations automated, the tenderers shall take this into account in the preparation of their tenders.
- The existing grout plant will be made available to the Contractor and all material required for use in providing the grout will be free-issued as specified in the Schedule of Responsibilities. The Contractor shall be responsible for the good and safe maintenance and operation of the facilities and plant handed over to the Contractor for his use.
- Due to the critical and essential nature of the operation of the grout plant to enable grout production, Low Performance Damages will be implemented for poor maintenance / quality and operation. Service reliability KPIs will be implemented in accordance with the Schedule of Responsibilities

PART C The Supplier

The following are the preliminary guidelines for the contractor.

- The Contractor is to supply all the labour (Including maintenance and repair support services) and equipment for specialized work being done
- All material and tools required to complete the work, to be supplied by the Contractor as per the Schedule of Responsibilities, unless otherwise stated.
- The contractor to supply a takeover and or purchasing plan of all required grout plant equipment owned and NOT owned by the mine.
- All costs to purchase new equipment, improve current grout plant operations and the maintenance thereof to be broken down and included in the ALL-INCLUSIVE tendered rate/m3
- The contractor to supply an action plan indicating the upliftment and employment supporting the local communities.
- All labour is to be declared medically fit by Sibanye Stillwater Platinum Hospital in obtaining a certificate of fitness. Certificate of fitness for Contractors account.
- All labour is to be inducted at Sibanye Stillwater training centre.
- A comprehensive contractor's file is to be compiled as per the prescribed Sibanye-Stillwater Contractors Safety File Compliance, example which will be made available to the successful tenderer.
- Detailed Traffic Management plan to be included in the Safety File. Taking into consideration approval permit from central, regarding transportation in relevant areas.
- All applicable procedures to be in the safety file and signed-off by all contractor employees on site.
- The Contractor to ensure that all the Contractors Employees wear full personal protective equipment (PPE).
- Supply all PPE as per requirement for the work to be done

- Carry out all the work in compliance with the Sibanye Stillwater Codes of Practice, relevant procedures and legal requirements as per the MHSA
- Supply all accommodation and travel
- Supply a competent Supervision team for the period
- Supply a competent crew members for the work required
- The supplier will be responsible for all costs for training, on-boarding and medicals as required
- Daily diaries to be conducted and signed off. Daily diary books will be issued by the Mine, unless Contractor diary format is approved by the Mine.
- All tooling and equipment to be supplied by the Contractor and brought onto site accompanied by a tool list, with details of all the Contractor tools and equipment, which must be signed in at security. The tools and equipment must be checked, approved and certified by the Mine.
- The Contractor must supply a logbook, where all the lifting equipment and electrical tools that are going to be used are filled in, this logbook must be inspected monthly and tagged by the Mine. The Contractor must supply a pre-use inspection sheet for all electrical equipment used.
- A detailed risk assessment to be supplied by the Contractor, regarding the work to be performed, and must be reviewed and approved by the Engineer/Manager.
- The Contractor must supply a list of Assets to be purchased/leased/acquired for Operations specifying the purchase and or current value of all assets. List of assets to be updated and communicated to respective shaft Rock engineer and Supply Chain contract representative.
- The Contractor to ensure the effective and efficient use of all equipment supplied by the Company and the Contractor to ensure its safekeeping whilst in use by the Contractor. Where wastage is identified, the Contractor may be penalised accordingly.
- The Contractor must first obtain an order number, before any delivery of equipment and or performance of work relating to and or not related to this scope of work is conducted. Contractor to perform all work according to and in line with all relevant Sibanye Stillwater Policies and Procedures.
- Personal Protective Equipment and safety equipment for the Contractor's Employees will be supplied by the Contractor to the standards required by the Company.
- The supplier will be responsible to supply and install all equipment in line with the Schedule of Ownership in line with each shaft's respective requirements. (Annexure B)

The capacity of the grout plant, associated equipment and labour must be sufficient to provide pumping of grout for the following:

- TBC

D.1. GROUT PLANT MAINTENANCE AND OPERATION

MINE RESPONSIBILITIES:

- i. Will be responsible for the supply of utilities to the grout plant as required, i.e. Water, Air and Electricity.
- ii. Will be responsible for the supply and cost of all material required to maintain the MINE equipment
- iii. Supply all required communication
- iv. Supply of the following fixed equipment:
 - a. Store
 - b. All associated material with grout ranges (Pipes, fittings, brackets, poly picks, etc.)
 - c. Grout bags
 - d. Grout mixture (Cement, Fly Ash, Additives, Molasses, etc.)

As per the Schedule of Ownership for the respective shafts:

- e. Offices
- f. Grout plant building
- g. All associated grout plant equipment

CONTRACTOR RESPONSIBILITIES:

The contract work comprises of the maintenance and operation of the surface Grout Plants at EPL 3 Shaft.

- i. Shall supply adequate supervision and skilled labour necessary for the maintenance of the surface Grout Plants. Shall furnish the details of labour required in the format given in the annexure. On deviation in no. of Labour from plan, an approval from Mines Rock Engineering Department and Supply chain department is a must requirement.)
- ii. The Maintenance of the Grout Plants will be done as and when required and will run continuous with the Grout Plant operations and be conducted in such a manner as to prevent any stoppages and production losses.
- iii. Must ensure the grout mix is according to the specifications of the MINES Rock Engineering Department well in advance (2-3 days). Any delay because of quality of mixing or non-supply or under-supply of grout mix would be liable for penalty).
- iv. **Note:** Must ensure grout ranges don't become blocked
- v. Will be responsible for all the maintenance required on own equipment, as well as the MINE equipment, associated with the grout plant
- vi. Will be required to maintain all levels of supply necessary to support the Grout Plant Operations.
- vii. Will ensure timeous orders are placed by the different Site Accountants to maintain levels of supply.
- viii. Will ensure sufficient spares and critical spares are ordered and kept, unless otherwise stated, to ensure minimum downtime of equipment)
- ix. The CONTRACTOR must ensure the following material is managed, sufficient stocks readily available to prevent down time. and ordered according to the MINE's procurement process, but will be for the MINE's account) :
 - a. Cement,
 - b. Fly Ash,
 - c. Sand mix,
 - d. Additives,

- e. Grout Bags,
- f. Grout ranges and fittings,
- g. Poly picks,
- h. Spares for maintenance (For MINE equipment related to grout plant operations),
- i. Critical spares for grout plant infrastructure,
- j. Etc.

D.2 GROUT RANGES MAINTENANCE AND OPERATION

MINE RESPONSIBILITIES:

- i. Supply of grout ranges
- ii. Supply of material required for suspension of grout ranges
- iii. In charge of installation and removal of grout ranges in the decline shaft, with the assistance of the Contractor.

CONTRACTOR RESPONSIBILITIES:

- i. Shall supply all supervision and skilled labour necessary for the installation of these Grout Ranges as per Standard.
- ii. Assist the Mine in the installation and removal of grout ranges in the shaft.
- iii. The installation and suspension of the Grout Ranges will be erected when and where required, including extensions
- iv. Ensure all grout ranges installed, are maintained and suspended/installed neatly
- v. All blocked ranges will be removed and disposed of, as soon as possible
- vi. **Note:** The Contractor must ensure the grout mixture is correct, the grout plant together with associated equipment is correctly maintained and pumping of grout is managed correctly, to prevent any blockages of grout ranges, especially in the vertical shaft

D.3 PUMPING OF GROUT PACKS and ADHOC WORK

- I. The contract work comprises of the pumping of Grout Packs, as well as ad-hoc work: (shaft to specify in line with shaft requirements) (i.e Winch beds, flooring, etc) in the underground working places as and where required by operations.
- II. Ad-hoc work includes for supplying grout for the construction of haulage walkways (travelling ways) and for construction work that may be required. Permission to pump grout for any other purpose shall be in the form of a written instruction from the **RE/ Mine Manager**. The same principle will apply regarding any overtime required to complete critical work.
- III. The CONTRACTOR shall supply all supervision and skilled labour necessary for the pumping of these Grout Packs and ad-hoc work as per Standard.
- IV. The grout packs or other areas where grouting is required, will be erected when and where required by the MINE. The MINE will be responsible for the supply, transport and installation of all material to install the grout packs or boxing for ad-hoc work i.e. Mining poles, grout bags, grout bag rings, gum planks, etc.

D.4 TENDER SUBMISSION DETAILS:

- I. The Contractor must clearly and thoroughly describe the method of how this service will be provided and how he intends to optimize the delivery of grout. This must be submitted in the form of a mobilization plan which must include the transition in and take over period from the current grout plant operators.
- II. The Contractor shall evaluate all current systems on each operational shaft to establish whether it can be operated as per current infrastructure / a system being implemented or whether a system changeover is required. The Contractor must demonstrate to the Employer which will function more efficiently with lower risk and at a lower cost (i.e. Single displacement system versus a relay system).
- III. The Contractor shall supply all supervision and skilled labour necessary for the maintenance of the surface Grout Plants together with:

- Labour histogram and organogram of resources which he requires to perform the work which is to be submitted to the Service Manager for approval as follows:
 - a. Plant Operational Structure (Surface)
 - b. Underground functioning structures per stope / level.
- IV. The Contractor shall be responsible for the insurance for his Equipment and tools. The Employer has roaming security and shall supply the necessary fencing and gates to secure the site. The Contractor shall adhere to the Employer's access control system and shall manage access to his site.

PART E The Principal (Sibanye Stillwater)

Ensure the Contactor Employees are provided with Cap lamps, Self-contained self-rescuers, methanometers and change house facilities.

Preliminaries and General

- A template of the safety file can be obtained from the mine safety officers
- The mine will supply the necessary induction training Note: Contractor employee salaries for the duration of the training should be catered for in the Site- Establishment cost.
- Medical & Induction costs to be included in Site Establishment costs
- Additional training at Contractors cost

PART F Specifications, Standards, Codes of Practice and Legal Requirements

- All the relevant documentation and correspondence will only be done in English.
- All and any proposed deviation from the specifications, including modification to structures deemed necessary and other than stated in this scope of work, will be submitted in writing to the Engineer for approval, prior to implementation.
- The Contractor to ensure that the Services are carried out in compliance with the relevant Laws and Regulations, and Company Standards.
- All Sibanye Stillwater MCOP's, COP's and standards must be complied with at all time. MCOP's, COP's and standards can be supplied to contractors should it be required.
- All legal requirements as prescribed in the Mine Health and Safety Act: Act 29 of 1996 must be complied with at all times.
- In any area of the Works where the Employer does not have a standard procedure the Contractor will be responsible to develop such standard procedure and have it approved by the Employer, before any such work can continue.
- The Contractor shall plan his work and availability to meet the Employers requirements in compliance with labour legislation.

PART G Quality Assurance and Guarantees

The CONTRACTOR is to have an effective quality management system. Quality assurance is to be in accordance with ISO 9001

The CONTRACTOR will apply the correct grout mix design and quality of the pack as determined by the MINES Rock Mechanic Engineer.

The CONTRACTOR must send regular cube test samples for analysing, as determined by the MINE

The CONTRACTOR must ensure calibration all required equipment is done, according to best practice intervals, or determined by the MINE

PART H Program and Progress Reporting

The site supervisor must report on a daily basis to the responsible MINE official

Part I SHERQ Management

- The Contractor will be required to implement Safety, Health, Risk, Quality and Environmental Management policies and systems.
- The Contractor will be required to implement these systems from the start of the contract and this must be maintained for the duration of the contract. This system must include aspects such as proper SHERQ incident management which follows the ICAM investigation process and proactive measures to counter incidents through PTOs, SBOs, VFL interventions etc. The Contractor must implement strict discipline around accident/incident investigation with the aim being to prevent repeat incidents. A culture of regular auditing must be entrenched and simple measures such as housekeeping standards must be implemented and monitored. In order to monitor these efforts the Service Manager will implement a “SHERQ Robot” report which will track and report on proactive SHERQ actions to ensure Zero harm. The Contractor will be required to ensure that they implement these actions.
- The Miner of an underground section must do the quality and quantity control of the packs installed in his / her area of responsibility. A member of the Rock Engineering department or line management will do an over-inspection during routine visits to a section. If any sub-standard pack installations are identified, the contractor will be held responsible to rectify. Also, the company can withhold payment for any substandard installations.
- The Contractor must implement a risk management system, which covers baseline, issue based and continuous risk assessments. A system of continuous risk assessments must include the use of pre use checklists for operators, drivers and maintenance staff. A list of key risks must be kept up to date and visible at all times in key areas for employees to see. A Critical Task Inventory (CTI) must be established based on the various Risk Assessments completed and Critical Task Observations (CTOs) must be scheduled and carried out regularly by supervisors and managers to ensure that critical task requirements are adhered to.
- A fatigue management policy and system must be developed, adopted and implemented by the Contractor. The Contractor must implement a fatigue management system which monitors employee fatigue. Employee working hours must be tracked and reported on monthly to ensure they do not exceed the legislated requirements.
- The ISO14001 Environmental management system must be implemented and adopted by the Contractor which includes waste management, MSDS info and Audits. ISO14001 accreditation must be maintained for the

duration of the contract

- On-going Legal compliance monitoring and auditing must be implemented covering at least pressure vessels, lifting equipment, road worthy certificates of vehicles etc. Part of this legal compliance monitoring must include adherence to The Employer Fatal Risk Control Protocols (FRCPs) – Annexure B of the Data provided by the Employer.
- The Employer may carry out regular audits and inspections to ensure that the Contractor has properly implemented systems to ensure a quality, safe and reliable service.