

Supply and Delivery of various chemicals at Grootvlei Power Station for a period of 60 months on an as and when required basis.

PART 3: SCOPE OF WORK

Document reference	Supply and Delivery of various chemicals at Grootvlei Power Station for a period of 60 months on an as and when required basis.	No of pages
	This cover page	1
C3.1	<i>Purchaser's</i> Goods Information	17
C3.2	<i>Supplier's</i> Goods Information	
	Total number of pages	

C3.1: PURCHASER’S GOODS INFORMATION

Contents

Part 3: Scope of Work.....	1
C3.1: Purchaser’s Goods Information	2
1 Overview and purpose of the goods and services	3
2 Specification and description of the goods.....	3
3 Supply Requirements.....	13
4 Specification of the services to be provided	13
5 Constraints on how the Supplier Provides the Goods.....	14

Supply and Delivery of various chemicals at Grootvlei Power Station for a period of 60 months on an as and when required basis.

1 Overview and purpose of the goods and services

Supply and Delivery of various chemicals at Grootvlei Power Station for a period of 60 months on an as and when required basis. Chemicals are supplied in different sizes and forms. Chemicals are used at different plants (Water treatment plant, Reverse osmosis plant, Water and Coal Laboratory) to control chemical components and maintain high quality standard of our chemical services activities

2 Specification and description of the goods

Note: Suppliers are allowed to tender for one contract out of three contracts or for two contracts out of three contracts or for all three contracts, but tendered contract must be tendered in full and separated as per below tables. No tendering of few items in each contract and some few items in other contract.

The supplier is required to supply and deliver chemicals at Grootvlei PS.

The supplier is required to supply the following chemicals:

Contract number 1 : Water Treatment Plant chemicals

Material Number	Description	Unit of Measure	Quantity
0555660	CHEMICAL: TYPE: SODIUM CARBONATE; FORM: DRY POWDER; CONTAINER CAPACITY: 50 KG; CONTAINER: BAG; TRADE NAME: SODA ASH; COMPOSITION: 99- 100; SODIUM CARBONATE PCT; COLOR: WHITE; MSDS NUMBER: 53242; STORE IN A COOL; DRY; VENTILATED AREA; PROTECT AGAINST PHYSICAL DAMAGE	KG	100 000
0226255	CHEMICAL: TYPE: SALT; FORM: COARSE GRANULAR; CONTAINER CAPACITY: 50 KG; CONTAINER: BAG WOVEN PVC; COMPOSITION: NACL 99.7PC/NASO4 0.1PCT W/W MAXIMUM/CASO4 0.01PCT W/W MAXIMUM/MGCL 0.01PCT W/W MAXIMUM/INSOLUBLES 0.02 PCT; NO IODIDE AND SILICATE TO BE PRESENT IN THE SALT, MATERIAL SAFETY DATA SHEETS WITH ENVIRONMENTAL INFORMATION IN THE 16 POINT FORMAT TO BE PROVIDED WITH EVERY DELIVERY AS REQUIRED BY THE OCCUPATIONAL HEALTH AND SAFETY ACT	KG	250 000
0756596	CHEMICAL: TYPE: AMMONIUM SOLUTION 25%; FORM: LIQUID; CONTAINER CAPACITY: 1000 KG; CONTAINER: FLOW BIN; COLOR: COLORLESS; GRADE: AR	KG	100 000

Supply and Delivery of various chemicals at Grootvlei Power Station for a period of 60 months on an as and when required basis.

0689693	SAND: TYPE: WASHED RIVERB FOR SANDFILTRATION; MATERIAL: GRADED SMALL STONES (SILICA); CONTAINER: BAG 25 KG; WASHED AND GRADED SILICA QUARTS SAND 0.9 MM, WITH A NORMAL DISTRIBUTION (ND) OF 0.6MM-1.2MM, 90 PERCENTILE, DEPENDING ON THE SUPPLIER, THIS IS ALSO CALLED 0.95 SAND OR 0.9MM SAND	KG	50 000
0695302	CHEMICAL: TYPE: HTH CHLORINE CHIPS; FORM: INDUSTRIAL CHIPS; CONTAINER CAPACITY: 25 L; CONTAINER: BUCKET PLASTIC; TRADE NAME: HTH CHIPS; COLOR: WHITE; GRADE: COMMERCIAL; SUPPLY AND DELIVER HTH CHLORINE CHIPS	KG	20 000

Contract number 2: Reverse osmosis plant chemicals

Material Number	Description	Unit of Measure	Quantity
0763724	CHEMICAL: TYPE: SODIUM HYPOCHLORITE; FORM: LIQUID; CONTAINER CAPACITY: 25 L; CONTAINER: DRUM; COMPOSITION: 12.5 SODIUM HYPOCHLORITE/1.5-2.5 SODIUM HYDROXIDE; CAS REGISTRY NUMBER: 768-52-9; EINECS NUMBER: 231-668- 3; GRADE: COMMERCIAL; MATERIAL SAFETY DATA SHEETS WITH ENVIRONMENTAL INFORMATION IN THE 16 POINT FORMAT TO BE PROVIDED WITH EVERY DELIVERY AS REQUIRED BY THE OCCUPATIONAL HEALTH AND SAFETY ACT	KG	30 000
0763668	CHEMICAL: TYPE: HYDROCHLORIC ACID 30-33; FORM: LIQUID; CONTAINER CAPACITY: 28 KG; CONTAINER: DRUM PLASTIC; IN CARBOY CONTAINERS, MATERIAL SAFETY DATA SHEETS WITH ENVIRONMENTAL INFORMATION IN THE 16 POINT FORMAT TO BE PROVIDED WITH EVERY DELIVERY AS REQUIRED BY THE OCCUPATIONAL HEALTH AND SAFETY ACT, MSDS TO	KG	30 000

Supply and Delivery of various chemicals at Grootvlei Power Station for a period of 60 months on an as and when required basis.

	BE SUPPLIED AS PART OF THE TENDER, NO SUBSTANCES AND/OR INGREDIENTS THAT FALL UNDER THE TABLE 1 CATEGORY OF THE HAZARDOUS SUBSTANCES WILL BE USED, ANY		
	FALLING UNDER TABLE 3 OF THE SAME REGULATIONS SHALL NOT BE USED WITHOUT THE PRIOR PERMISSION OF THE MEDICAL CENTRE AND SAFETY RISK, SHALL BE BIODEGRADABLE, AND OZONE FRIENDLY, A COPY OF THE MSDS SHALL BE SENT TO THE MEDICAL CENTRE AND SAFETY RISK		
0763723	CHEMICAL: TYPE: SODIUM METABISULPHITE; FORM: POWDER; CONTAINER CAPACITY: 25 KG; CONTAINER: BAG PLASTIC; MATERIAL SAFETY DATA SHEETS WITH ENVIRONMENTAL INFORMATION IN THE 16 POINT FORMAT TO BE PROVIDED WITH EVERY DELIVERY AS REQUIRED BY THE OCCUPATIONAL HEALTH AND SAFETY ACT	KG	20 000
0763720	CHEMICAL: TYPE: HYPOCHLORITE SOLUTION; FORM: LIQUID; CONTAINER CAPACITY: 1000 KG; CONTAINER: BULK INTERMEDIATE; TRADE NAME: SODIUM HYPOCHLORITE; COMPOSITION: SODIUM HYPOCHLORITE 12.5 PCT; COLOR: YELLOWISH; CAS REGISTRY NUMBER: 7681-52-9; EINECS NUMBER: GHS16 POINT SDS AND LABELING; GRADE: SG 1.2; SPECIFICATION: ISO 9001-2008; SUPPL P/N: 8023; USED TO CONTROL MICRO ORGANISM IN WATER; MUST SUPPLY A GHS APPROVED SDS AND COPY OF GHS COMPLIANT LABEL; PACKING RELATED TO IBC MUST IN A KAYMAK DAUGHTER BIN TO ENSURE SAFE OFF-LOADING; SUPPLIERS ARE REQUIRED TO DELIVER AND OFF-LOAD CHEMILS IN ACCORDANCE TO THE TRANSPORT OF DANGEROUS GOODS ACT OF 1992	KG	50 000
0763722	CHEMICAL: TYPE: MEMBRANE CLEANER; FORM: LIQUID; CONTAINER CAPACITY: 25 KG; CONTAINER: CAN POLY; TRADE NAME: RO FLUSHING AND CLEANING AGENT HIGH PH-POST PRESERVATION; COMPOSITION: AN ALKALI CHELATING AGENT BLEND; COLOR: COLORLESS; CAS REGISTRY NUMBER: BLEND; EINECS NUMBER: GHS16 POINT SDS AND LABELING; GRADE: SG 1.2; SPECIFICATION: ISO 9001-2008; SUPPL P/N: 4708; PH12-13; MUST SUPPLY A GHS APPROVED SDS AND COPY OF GHS COMPLIANT LABEL; PACKING RELATED TO IBC MUST IN A KAYMAK DAUGHTER BIN TO ENSURE SAFE OFF-LOADING; SUPPLIERS ARE REQUIRED TO DELIVER AND OFF-LOAD CHEMILS IN ACCORDANCE TO THE TRANSPORT OF DANGEROUS GOODS ACT OF 1992	KG	30 000

Supply and Delivery of various chemicals at Grootvlei Power Station for a period of 60 months on an as and when required basis.

0761329	CHEMICAL: TYPE: MEMBRANE SCALE INHIBITOR; FORM: LIQUID; CONTAINER CAPACITY: 25 L; CONTAINER: DRUM; TRADE NAME: HYPERSPERSE MS1310; EINECS NUMBER: ANTI SCALANT; SPECIFICATION: ANTI SCALENT FOR REVERSE OSMSOSIS MEMEBRANES	KG	50 000
0669621	INHIBITOR, CORROSION: TYPE: CHEMICAL; PHYSICAL FORM: LIQUID; CONTAINER TYPE: DRUM/FLOW BIN; CONTAINER CAPACITY: 1000 KG; COLOR: COLORLESS; SPECIAL FEATURES: ANTISCALENT; APPLICATION: SCALE REMOVAL; STANDARD: ISO 9001; SCALE CONTROL/INHIBITOR FOR ASH SYSTEM, ANTISCALENT TO BE DOSED CONTINUOUSLY TO PREVENT SCALE FORMATION ON ASH WATER PUMPS	KG	30 000

Supply and Delivery of various chemicals at Grootvlei Power Station for a period of 60 months on an as and when required basis.

Contract number 3 : Water and Coal Laboratory chemicals

Material Number	Description	Unit of Measure	Quantity
0157213	CHEMICAL: TYPE: SODIUM HYDROXIDE (NAOH); FORM: PELLETS; CONTAINER CAPACITY: 25 KG; CONTAINER: BUCKET PLASTIC; CAT NO: 78272 REP 90; AR PEARLS 99 TO 100PCT; PACKED IN A TRANSPARENT PLASTIC BAG INSIDE THE 25 KILOGRAM PLASTIC BUCKET WITH LID; MATERIAL SAFETY DATA SHEETS WITH ENVIRONMENTAL INFORMATION IN THE 16 POINT FORMAT TO BE PROVIDED WITH EVERY DELIVERY AS REQUIRED BY THE OCCUPATIONAL HEALTH AND SAFETY ACT; FULL CERIFICATE OF ANALYSES WITH EVERY DELIVERY	KG	8 000
0694415	REAGENT: TYPE: SALT; TRADE NAME: FLUORESCHEIN SODIM SALT; PHYSICAL FORM: SALT; COLOR: RED; CONTAINER: PLASTIC; CONTAINER CAPACITY: 500 G; NAME: FLUORECEIN SODIUM SALT; GRADE: AR; FOR TRACEABILITY	G	400 000
0688741	CHEMICAL: TYPE: DIISOPROPYLAMINE; FORM: LIQUID; CONTAINER CAPACITY: 2.5 L; CONTAINER: BOTTLE AMBER GLASS; TRADE NAME: DIISOPROPYLAMINE; COMPOSITION: 99 PCT PURITY; COLOR: CLEAR; CAS REGISTRY NUMBER: 108-18-9; EINECS NUMBER: 12724/2008; MSDS NUMBER: 1907-2006; GRADE: ANALYTICAL SYNTHESIS; SPECIFICATION: ISO 9001-2008; FOR SYNTHESIS, MELTING POINT: -96 DEGREE CELSIUS, BOILING POINT: 93 DEGREE CELSIUS, FLASH POINT: -17 DEGREE CELSIUS, HIGHLY FLAMABLE IRRITANT, DENSITY: 0.722 AT 22 DEGREE CELSIUS, VAPOUR DENSITY: 3.5, ASSAY (GC) > 99PCT, WATER: <0.3PCT, MATERIAL SAFETY DATA SHEETS WITH ENVIRONMENTAL INFORMATION IN THE 16 POINT FORMAT TO BE PROVIDED WITH EVERY DELIVERY AS REQUIRED BY THE OCCUPATIONAL HEALTH AND SAFETY ACT	L	5000

Supply and Delivery of various chemicals at Grootvlei Power Station for a period of 60 months on an as and when required basis.

0575644	CHEMICAL: TYPE: 1AMINO-2 NAPH-4 SULF ACID; FORM: SOLID; CONTAINER CAPACITY: 100 G; CONTAINER: BOTTLE PLASTIC; COMPOSITION: C10 H9 NO4 S; GRADE: AR; MANUF P/N: 100099; 1AMINO-2 NAPHTHOL-4 SULFONIC ACID	G	1000
0575645	CHEMICAL: TYPE: PH4 BUFFER; FORM: LIQUID; CONTAINER CAPACITY: 500 ML; CONTAINER: BOTTLE PLASTIC; GRADE: AR; MANUF P/N: 109884	L	1000
0575646	CHEMICAL: TYPE: PH7 BUFFER; FORM: LIQUID; CONTAINER CAPACITY: 500 ML; CONTAINER: BOTTLE PLASTIC; GRADE: AR; MANUF P/N: 109887	L	1000
0727269	BUFFER SOLUTION: TYPE: LIQUID; CONTAINER: 500 ML; CONCENTRATION: 9 PH; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	L	1500
0575647	CHEMICAL: TYPE: PH 10 BUFFER; FORM: LIQUID; CONTAINER CAPACITY: 500 ML; CONTAINER: BOTTLE PLASTIC; GRADE: AR	L	1000
0727136	CHEMICAL: TYPE: ACETONE AR; FORM: LIQUID; CONTAINER CAPACITY: 2.5 L; CONTAINER: PLASTIC	L	1000
0575677	CHEMICAL: TYPE: NESSLER REAGENT; FORM: LIQUID; CONTAINER CAPACITY: 500 ML; CONTAINER: BOTTLE PLASTIC	ml	12 000
0729850	CHEMICAL: TYPE: CHLORIDE STANDARD AMPOULE; FORM: LIQUID; CONTAINER CAPACITY: 100 ML; CONTAINER: PLASTIC; TRADE NAME: CHLORIDE STANDARD SOLUTION 1000 PPM AMPOULE; COMPOSITION: AQUEOUS SOLUTION; COLOR: COLORLESS; MSDS NUMBER: 109924; GRADE: AR; SPECIFICATION: 1000 MG/L	ml	3000
0761332	CHEMICAL: TYPE: SULPHATE STANDARD; FORM: LIQUID FORM; CONTAINER CAPACITY: 500 ML; CONTAINER: PLASTIC; TRADE NAME: SULPHATE STANDARD; COMPOSITION: SULPHATE IN WATER; COLOR: COLORLESS; CAS REGISTRY NUMBER: N/A; EINECS NUMBER: N/A; MSDS NUMBER: N/A; GRADE: AR; SPECIFICATION:	ml	3000

Supply and Delivery of various chemicals at Grootvlei Power Station for a period of 60 months on an as and when required basis.

	TRACEABLE TO NIST, 99.99% PURITY		
0706871	CHEMICAL: TYPE: ACETYLACETONE; FORM: LIQUID; CONTAINER CAPACITY: 500 ML; CONTAINER: GLASS; TRADE NAME: ACETYLACETONE FOR ANALYSIS EMSURE; COMPOSITION: CH3COCH2COCH3 C3H3O2(HILL); COLOR: BROWN; CAS REGISTRY NUMBER: 123-54-6; EINECS NUMBER: 204-634-0; MSDS NUMBER: 109600; GRADE: AR; SPECIFICATION: <=100%; PURITY >99%; LASTEST 16 POINTS SAFETY DATA SHEET, CERTIFICATE OF ANALYSIS TO BE SUPPLIED WITH EVERY DELIVERY.	ml	7500
0687022	CHEMICAL: TYPE: TRIS(HYDROXYMETHYL)AMINOMETH ANE; FORM: POWDER; CONTAINER CAPACITY: 500 G; CONTAINER: PLASTIC; TRADE NAME: TRIS BASE	G	12 500
0581542	CHEMICAL: TYPE: FERROUS AMMONIUM SULPHATE; FORM: SOLID; CONTAINER CAPACITY: 500 G; CONTAINER: PLASTIC	G	50 000
0581540	CHEMICAL: TYPE: REAGENT 1A; FORM: SOLID; CONTAINER CAPACITY: 500 G; CONTAINER: PLASTIC; COPRE SILICA/PHOSPHATE AMMONIUM HEPTAMOLYBDATE TETRAHYDRATE	G	80 000
0581541	CHEMICAL: TYPE: OXALIC ACID DEHYDRATE; FORM: SOLID; CONTAINER CAPACITY: 500 G; CONTAINER: PLASTIC; COMPOSITION: C2H2O.2H2O	G	80 000
0757936	CHEMICAL: TYPE: POTASSIUM METABISULPHITE; FORM: SOLID; CONTAINER CAPACITY: 500 G; CONTAINER: PLASTIC; COLOR: WHITE; GRADE: AR; REQUIRED WITH EVERY DELIVERY AND MUST INCLUDE MANUFACTURING DATE, C.O.A,	G	30 000
0727122	CHEMICAL: TYPE: DPD1-FREE CHLORINE; FORM: SOLID; CONTAINER CAPACITY: 100 TABLETS PER BOX; CONTAINER: BOX; TRADE NAME: CHLORINE TABLETS; COLOR: WHITE	G	500
0576801	CHEMICAL: TYPE: POTASSIUM HYDROGEN PHTHALATE; FORM: SOLID; CONTAINER CAPACITY: 500 G; CONTAINER: BOTTLE PLASTIC; COLOR: WHITE; CAS REGISTRY NUMBER: 877-24-7; GRADE: AR	G	12 500

Supply and Delivery of various chemicals at Grootvlei Power Station for a period of 60 months on an as and when required basis.

0761805	CHEMICAL: TYPE: SILICA GEL SELF INDICATING; FORM: GRANULES; CONTAINER CAPACITY: 1 KG; CONTAINER: PLASTIC BAG	Kg	20
0761794	CHEMICAL: TYPE: SODIUM SULFITE; FORM: POWDER; CONTAINER CAPACITY: 500 G; CONTAINER: PLASTIC	G	2000
0688744	CHEMICAL: TYPE: TARTARIC ACID; FORM: DRY POWDER; CONTAINER CAPACITY: 500 G; CONTAINER: BOTTLE PLASTIC; TRADE NAME: TARTARIC ACID; COMPOSITION: 99.5-101 PCT; COLOR: WHITE CLEAR; CAS REGISTRY NUMBER: 87- 69-4; EINECS NUMBER: 201-766-0; GRADE: AR; SUPPLIER TO BE ISO 9001 CERTIFIED, CHEMICALS TO BE DELIVERED WITH CERTIFICATE OF ANALYSIS AND 16 POINT SAFETY DATA SHEET, NO REPAKED CHEMICALS TO BE SUPPLIED, ALL STANDARD TO BE TRACEABLE TO SRM FROM NIST, ONLY AR GRADE CHEMICALS TO BE SUPPLIED, EXPIRY DATE OF THE CHEMICALS SHOULD BE A MINIMUM OF 2 YRS FROM DATE OF DELIVERY, CHEMICALS TO CONFORM TO GHS LABELLING STANDARD	G	110 000
0704570	CHEMICAL: TYPE: ZINC 1000 PPM; FORM: LIQUID; CONTAINER CAPACITY: 500 ML; CONTAINER: PLASTIC; TRADE NAME: ZINC STANDARD SOLUTION; COLOR: COLORLESS; MSDS NUMBER: 170389; GRADE: AR; TRACEABLE TO SRM FROM NIST ZN(NO3)2 IN HNO3 2-3% 10000 MG/L ZN CERTIPUR; CERTIFICATE OF ANALYSIS SHEET AND LATEST 16 POINT MATERIAL SAFETY DATA SHEET TO BE SUPPLIED WITH EVERY DELIVERY	ml	10 000
0705039	CHEMICAL: TYPE: MANGANESE STANDARD AMPOULE; FORM: LIQUID; CONTAINER CAPACITY: 100 ML; CONTAINER: PLASTIC; TRADE NAME: MANGANESE STANDARD SOLUTION 1000 PPM AMPOULE; COMPOSITION: AQUEOUS SOLUTION; COLOR: COLORLESS; MSDS NUMBER: 109988; GRADE: AR; SPECIFICATION: 1000MG MN; PURITY 100 PCT +/-1 PCT; MANGANESE STANDARD AMPOULE 0.0001-0.1 PCT WATER BALANCE; LATEST 16 POINT MATERIAL SAFETY DATA SHEET AND CERTIFICATE OF ANALYSIS TO BE SUPPLIED WITH EVERY DELIVERY; CHEMICAL BE TRACEABLE TO NIST	ml	10 000

Supply and Delivery of various chemicals at Grootvlei Power Station for a period of 60 months on an as and when required basis.

0739077	STANDARD, ANALYTICAL TEST: MATERIAL: NITRATE AMPOULE; WEIGHT: 1000 ML	ml	10 000
0751078	ACCESSORY: TYPE: ELECTROLYTE 3MOL/L KCL; STANDARD: ISO 9001; OEM P/N: 62313000; USED ON METROHM INSTRUMENT; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	ml	7500
0761806	CHEMICAL: TYPE: POTASSIUM CHLORIDE; FORM: LIQUID; CONTAINER CAPACITY: 1 L; CONTAINER: PLASTIC	●	25

Supply and Delivery of various chemicals at Grootvlei Power Station for a period of 60 months on an as and when required basis.

0747519	ACCESSORY: TYPE: REFERENCE FILLING SOLUTION 2MOL KCL; STANDARD: ISO9001; OEM P/N: A-87.892.400; SWAN REFERENCE FOR SWAN PH ONLINE ANALYSER; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	ml	4000
0731170	CHEMICAL: TYPE: TOLUENE; FORM: LIQUID; CONTAINER CAPACITY: 2.5 L; CONTAINER: AMBER GLASS; TRADE NAME: TOLUENE; COMPOSITION: C7H8, 92,14 G/MOL; COLOR: COLORLESS; CAS REGISTRY NUMBER: 108-88-3; EINECS NUMBER: 203-625-9; GRADE: AR GRADE; CERTIFICATE OF ANALYSIS & SDS (GHS COMPLIANT) SHOULD BE DELIVERED WITH THE CHEMICAL.	L	1250
0705043	CHEMICAL: TYPE: POTASSIUM STANDARD AMPOULE; FORM: LIQUID; CONTAINER CAPACITY: 100 ML; CONTAINER: PLASTIC; TRADE NAME: POTASSIUM STANDARD SOLUTION 1000 PPM AMPOULE; COMPOSITION: AQUEOUS SOLUTION; COLOR: COLORLESS; MSDS NUMBER: 109924; GRADE: AR; SPECIFICATION: 1000MG K; PURITY 100PCT +/-1 PCT; AMPOULE 0.0001-0.1 PCT WATER BALANCE; LATEST 16 POINT MATERIAL SAFETY DATA SHEET AND CERTIFICATE OF ANALYSIS TO BE SUPPLIED WITH EVERY DELIVERY; CHEMICAL BE TRACEABLE TO NIST	ml	10 000
0704086	CHEMICAL: TYPE: MAGNESIUM 1000 PPM; FORM: LIQUID; CONTAINER CAPACITY: 500 ML; CONTAINER: PLASTIC; TRADE NAME: MAGNESIUM STANDARD SOLUTION; COLOR: COLORLESS; MSDS NUMBER: 170379; GRADE: AR; TRACEABLE TO SRM FROM NIST MG(NO3)2 IN HNO3 2-3% 10000 MG/L MG CERTIPUR; CERTIFICATE OF ANALYSIS SHEET AND LASTEST 16 POINT MATERIAL SAFETY DATA SHEET TO BE SUPPLIED WITH EVERY DELIVERY	ml	10 000
0575681	CHEMICAL: TYPE: HYDROCHLORIC ACID 32%; FORM: LIQUID; CONTAINER CAPACITY: 2.5 L; CONTAINER: GLASS; COMPOSITION: HCl; COLOR: CLEAR; CAS REGISTRY NUMBER: 7647-01-0; MSDS NUMBER: M34514; GRADE: AR	L	100
0666062	CHEMICAL: TYPE: NITRIC ACID 65% SUPRAPUR; FORM: LIQUID; CONTAINER CAPACITY: 1 L; CONTAINER: BOTTLE GLASS; TRADE NAME: NITRIC ACID; COMPOSITION: AQUEOUS SOLUTION; COLOR: CLEAR; CAS REGISTRY NUMBER: >=65%-<70%; EINECS NUMBER: 1272/2008; MSDS NUMBER: 100441; GRADE: AR; SPECIFICATION: 65% SUPRAPUR; PURITY >65%; LASTEST 16 POINT SAFETY DATA SHEET AND CERTIFICATE OF ANALYSIS TO BE SUPPLIED WITH EVERY DELIVERY	L	25
0575673	CHEMICAL: TYPE: SULFURIC ACID; FORM: LIQUID; CONTAINER CAPACITY: 2.5 L; CONTAINER: BOTTLE GLASS; COMPOSITION: H2SO4; COLOR: CLEAR/AMBER; CAS REGISTRY NUMBER: 7664-93-9; GRADE: AR	L	125 0

Supply and Delivery of various chemicals at Grootvlei Power Station for a period of 60 months on an as and when required basis.

0684472	CHEMICAL: TYPE: FLUORIDE STANDARD SOLUTION; FORM: LIQUID; CONTAINER CAPACITY: 500 ML; CONTAINER: BOTTLE PLASTIC; COLOR: COLORLESS; GRADE: AR; 1.19814.0500; TRACEABLE TO SRM FROM NIST; NAF IN H2O 1000 MG L F CERTIPUR	ml	10 000
0575657	CHEMICAL: TYPE: ETHANOL 70%; FORM: LIQUID; CONTAINER CAPACITY: 2.5 L; CONTAINER: GLASS; COMPOSITION: C2H5OH; COLOR: CLEAR; GRADE: AR	L	50
0731164	CHEMICAL: TYPE: METHANOL; FORM: LIQUID; CONTAINER CAPACITY: 2,5 L; CONTAINER: AMBER GLASS; TRADE NAME: METHANOL; COMPOSITION: CH4O, 32,04 G/MOL; COLOR: COLORLESS; CAS REGISTRY NUMBER: 67-56-1; EINECS NUMBER: 200-659-6; GRADE: AR; CERTIFICATE OF ANALYSIS & SDS (GHS COMPLIANT) SHOULD BE DELIVERED WITH THE CHEMICAL.	L	50
0761807	CHEMICAL: TYPE: MULTI ELEMENT REAGENT; FORM: LIQUID; CONTAINER CAPACITY: 100ml; CONTAINER: PLASTIC	ml	200 0

0761997	CHEMICAL: TYPE: DP3 TOTAL CHLORINE; FORM: SOLID; CONTAINER CAPACITY: 250 G; CONTAINER: BOX; FOR TESTING POTABLE WATER CHLORINE CONTENT	Ea	1 0 0 0
---------	--	----	------------------

2.1 Factory acceptance testing (FAT)

Certificate of Analysis provided must have test results from accredited supplier and traceable to batch numbers.

3 Supply Requirements

Clause 11.2(16) defines Supply Requirements. The Supply Requirements for this contract are in an Annexure A to the Contract Data provided by the *Purchaser*.

4 Specification of the services to be provided

Refer to point 2.0 above.

Supply and Delivery of various chemicals at Grootvlei Power Station for a period of 60 months on an as and when required basis.

5 Constraints on how the *Supplier* Provides the Goods

5.1 Work to be done by the Delivery Date

Supplier gets notice of goods to be delivered and then arranges for delivery to Grootvlei Power Station. The supplier will offload at the requested area such as Reverse osmosis plant, Ash Water Return, Water treatment plant and water laboratory. All the documentation accompanying delivery should be signed.

5.2 Services & other things to be provided by the *Purchaser* or *Supplier*

Forklift will be provided by the purchaser for offloading when needs arise.

5.3 Management meetings

Regular meetings of a general nature may be convened and chaired by the *Supply Manager* as follows:

Title and purpose	Approximate time & interval	Location	Attendance by:
Overall contract progress and feedback	Yearly, discussing deliveries. An Ad hoc meeting can be arranged should there be an urgent discussion required.	Virtually	<i>Purchaser, Supplier, and Service Manager</i>
Contractor SHE meetings	Quarterly	Grootvlei	Purchaser, Supplier, and Service Manager

5.4 Documentation control

All documentations related to deliveries, invoices, COA and SDS must be in the form of formal document. All communication should be done via email or telephonically then email should follow confirming telephonically discussion.

5.5 Health and safety risk management

The Contractor shall adhere to all OHS Legal requirements, OHS corporate policies, standards and procedures to which Eskom subscribes and as indicated on the issued SHE specification.

The Contractor shall, when coming on site (Grootvlei Power Station), abide by the Lifesaving Rules. These will be provided by the Employer on the start of the contract.

Supply and Delivery of various chemicals at Grootvlei Power Station for a period of 60 months on an as and when required basis.

The Contractor shall also abide by the Grootvlei High risk Safety, Health and Environmental Specifications 240-73418055, which will also be provided by the Employer.

The Contractor shall, when coming on site (Grootvlei Power Station), make use of approved personal protective clothing such as overalls, safety shoes, safety hat, safety goggles, dust mask and gloves when necessary.

The Employer follows an Incident management procedure (32-95) that includes the investigation of all accidents involving personnel and property. This is done with the intention of introducing control measures to prevent a recurrence of the same incidents. The Contractor is expected to fully co-operate to achieve this objective. The Contractor will report any incident and accidents to Grootvlei Power Station within 24 hours or before end of shift. This report does not relieve the Consultant of his legal obligation to report certain incidents to the Department of Labour, or to keep records in terms of the Occupational Health and Safety Act, and Compensation for Occupational Injuries and Diseases Act.

The Contractor implements a safety plan and maintains the safety system until the completion of the whole of the works. The plan, will as a minimum, contain PPE information, written safe work procedures, job specific risk assessments, safety meetings, etc. The plan will be to the Employer's satisfaction and will be accepted prior to the commencement of any work.

The Contractor will be subject to periodic audits by the Employer to ensure compliance with the plan. Any deviations will be corrected to the Employer's satisfaction.

The Service Manager has the right to stop the Contractor's work activities which, in the opinion of Service Manager, is un-safe. The Contractor may only continue with work activities when all safety deficiencies have been corrected to the Service Manager's satisfaction. The Contractor shall have no claim against the Employer in respect of delay due to the above.

The Contractor shall comply with the health and safety requirements contained in the contract tender package (j) The Contractor allocates staff to be trained and authorised as Responsible Persons according to Employer's Plant Safety Regulations and/or High Voltage Regulations. These Responsible Persons must be available on Site as and when required to take out permits to work.

5.6 Environmental constraints and management

5.7.1 Policy, Leadership and Commitment

- a) The contractor shall comply with all Eskom Grootvlei Power Station environmental requirements such as policies, standards and procedures (work instructions).
- b) The contractor shall appoint personnel in writing with basic Environmental knowledge who will have the responsibilities of implementing all environmental/SHE requirements on a specific contract.
- c) Station Waste Management Procedure and color coding shall be adhered to at all times.
- d) Ensure that all Environmental Requirements are communicated to relevant employees.

5.7.2 Legal and Other Requirements

- a. Adherence to the 'Duty of Care' as stipulated in section 28 of the National Environmental Management Act 107 of 2008.
- b. Adherence to applicable Environmental legislations, licences and permits and other requirements.
- c. A letter from top management guaranteeing the protection of workers refusing to do environmentally hazardous work in terms of section 29 of NEMA 107, of 1998.

5.7.3 Aspects, Impacts, Objectives and Targets

Supply and Delivery of various chemicals at Grootvlei Power Station for a period of 60 months on an as and when required basis.

- a. The contractor shall ensure that all aspects and impacts that can result in negative impacts on the environmental through their operations are identified and documented.
- b. Objectives and targets shall be established for aspects and impacts that are deemed to be significant. These objectives and targets will need to be documented and conveyed to all contractor personnel.

5.7.4 Incident Reporting and Investigation

- a. All incidents shall be managed according to Eskom Environmental incident management procedure-240-133087117.
- b. Polluter pays principles shall apply to all Contractors. It is the responsibility of the polluter to clean all spillages and for the rehabilitation of the polluted land and the cost associated with that.

5.7.5 Monitoring and Review

- a. Client personnel will conduct regular environmental audits. Contractors are expected to participate and ensure that corrective actions are executed.
- b. Eskom Grootvlei Power Station shall issue non-conformances where there are deviations from Grootvlei Power Station Procedures and any other environmental requirements.
- c. All environmental system documentation, records, reports etc. shall be made available for review when requested.

The Contractor shall comply with the environmental criteria and constraints stated in Annexure A safety documents

5.7 Quality

The Contractor shall be required to demonstrate by means of a Contract Quality Plan (CQP) that this organization is so structured that all the requirements of the specification will be properly monitored and controlled. The Contract Quality Plan (CQP), which must include the Quality Control Plan (QCP), is to be drafted in accordance with (240-105658000) and the Supplier Contract Quality Requirement Specification (240-105658000).

No work may commence unless the Contract Quality Plan and Quality Control Plan documents have been approved in writing and a copy submitted to the Employers Representative. The Contractor, in conjunction with the Employers Representative must sign off all Quality Control documents after completing all work as per the agreed scope.

The Contractor shall be required to read and fully understand the contents of the Supplier Contract Quality Requirement Specification (240-10565800) and a copy is to be kept in possession or on premises. The Contractor shall be subjected to scheduled assessments/audits if Eskom deems it necessary.

The Supplier Contract Quality Requirement Specification (240-105658000) shall remain applicable in the event of the contract being extended or modified for reasons permitted. By signature and acceptance of this contract the Contractor acknowledges and agrees to comply with and adhere to Eskom's policies and procedures (current and/or latest revisions) including the Supplier Contract Quality Requirement Specification (240-105658000).

5.8 Invoicing and payment

Within one week of receiving a payment certificate from the *Supply Manager* in terms of core clause 51.1, the *Supplier* provides the *Purchaser* with a tax invoice showing the amount due for payment equal to that stated in the *Supply Manager's* certificate.

Supply and Delivery of various chemicals at Grootvlei Power Station for a period of 60 months on an as and when required basis.

The *Supplier* shall address the tax invoice to *Purchaser* and include on each invoice the following information:

- Name and address of the *Supplier* and the *Supply Manager*;
- The contract number and title;
- *Supplier's* VAT registration number;
- The *Purchaser's* VAT registration number.
- Description of *goods* and *services* provided for each item invoiced based on the Price Schedule;
- Total amount invoiced excluding VAT, the VAT and the invoiced amount including VAT;
- (add other as required)