

|   |                      |                             |
|---|----------------------|-----------------------------|
|  | <p>Scope of work</p> | <p>Camden Power Station</p> |
|---|----------------------|-----------------------------|

Title: **Supplier and delivery of laboratory Chemicals, Diphoterine and glassware on basis of as and when required for the period of 60 months.**

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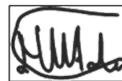


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## **1. Introduction**

Camden Power Station require a 60 Month contract for supply and delivery of laboratory chemicals, Diphoterine and glassware. These products will be required on basis of as and when required. Contract is required to ensure that quality is maintained in the laboratory. Camden laboratory is responsible for Fuel Oil, lubricating oil, Demin water analysis, Coal analysis and Portable analysis and there require quality chemicals to comply with Eskom and SANS 241 standard. The chemicals need to be of good quality (i.e. **AR or GR grade**) and must be supplied on time.

### **1.1 Scope**

#### **1.1.1 Purpose**

This will be to stipulate the requirement for suppling and delivering of laboratory chemicals at Camden Power Station

#### **1.1.2 Applicability**

Scope is applicable to Camden Power station Chemical Services

#### **1.1.3 Effective date**

It will be deemed effective on the date of Authorisation.

### **1.2 Normative/Informative References**

#### **1.2.1 Normative**

[1] ISO 9001 Quality Management Systems

#### **1.2.2 Informative References**

N/A

### **1.3 Roles and Responsibilities**

Supplier Responsibility.

- Supplier will be responsible for transporting of the chemicals and packaging in accordance with GHS requirement.
- Complying to Eskom Safety Requirements and lifesaving rules.

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## **1.4 Process for Monitoring**

- 1.4.1 Chemicals used in the laboratory must be of high quality i.e AR or GR grade
- 1.4.2 A certificate of analysis must be made available for all chemicals on every delivery.
- 1.4.3 Two different sources of standards and buffers are required: one for calibration (e.g. Buffer ampoule 7) and one for quality control (e.g. Buffer 7 solution), hence the apparent duplication on some of the items. The different source may be a different brand/batch number of ampoule from which a standard/buffer is prepared, or a prepared solution, in which case the certificate of analysis will have to provide the traceability of the solution.
- 1.4.4 All pH buffers need to have verifiable information of pH at various temperatures displayed on the packaging.
- 1.4.5 In some cases, Supra-pure versions of chemicals are required for analysis of low levels of concentration. Please take note of the stipulated requirement on Table A
- 1.4.6 Chemicals to be supplied should be at least 12 months and more prior to the expiry dates. Expiry date should be clearly identified on the container
- 1.4.7 Where possible, supply a catalogue of chemicals and equipment during tender submission. This will facilitate fast resolution of queries.
- 1.4.8 Volumetric flask and Pipette should be supplied as class A. Certificate of performance must be attached with delivery.
- 1.4.9 National Institute of Standards and Technology (NIST traceable) certificate will be required on some of the chemicals as stipulated on Table A.
- 1.4.10 Note: Site visits might be done to assess the manufacturing and to check the quality of chemicals.

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- 1.4.11 It's important that the supplier should be able to supply all the chemicals listed on Table A
- 1.4.12 Decanting is strictly prohibited.
- 1.4.13 DIPHOTERINE is a treatment solution designed for eye and skin chemical burns. The chemical must be supplied 2 years prior the expiry date
- 1.4.14 Provide SDS for all chemicals with each delivery and must comply with GHS requirements. SDS's must not be older than 5 years.
- 1.4.15 Driver must have a dangerous good permit/training. Title: The National Certificate Viii-Regulation 280 of The National Road Traffic Act 93 of 1996)

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**1.4.16 Table A: Chemical, Diphoterine and glassware required for 60 Months**

| <b>Chemicals, Diphoterine and glassware</b>  | <b>Quantity requested</b> | <b>Unit of Measure</b> |
|--|---------------------------|------------------------|
| <ul style="list-style-type: none"> <li>BUFFER; CONCENTRATION: 9 PH; CONTAINER: TUBE 500 ML; AMPOULE;</li> </ul>  | 500                       | EA                     |
| <ul style="list-style-type: none"> <li>BUFFER; CONCENTRATION: 7 PH; CONTAINER: TUBE 500 ML; AMPOULES;</li> </ul>   | 1 200                     | EA                     |
| <ul style="list-style-type: none"> <li>AMMONIUM MOLYBDATE SALT; FORM: CRYSTALLINE POWDER; CONTAINER CAPACITY: 500 G; CONTAINER: BOTTLE PLASTIC; TRADE NAME: AMMONIUM MOLYBDATE TETRAHYDRATE; COMPOSITION: 99.00-101.00 PCT; COLOR: WHITE CLEAR; CAS REGISTRY NUMBER: 12054-85-2; EINECS NUMBER: 234-320-9; GRADE: AR; SPECIFICATION: AR</li> </ul> | 30                        | EA                     |
| <ul style="list-style-type: none"> <li>SODIUM HYDROXIDE (NAOH); FORM: PELLETS; CONTAINER CAPACITY: 25 KG; CONTAINER: BUCKET PLASTIC;</li> </ul>  | 50                        | KG                     |
| <ul style="list-style-type: none"> <li>BUFFER SOLUTION PH 4.00; FORM: LIQUID; CONTAINER CAPACITY: 1000 ML; CONTAINER: BOTTLE PLASTIC; COLOR: COLORLESS; GRADE: AR; CERTIPUR, TRACEABLE TO SRM FROM NIST PTB</li> </ul>   | 300                       | EA                     |
| <ul style="list-style-type: none"> <li>EDTA SOLUTION; CONTAINER CAPACITY: 5 L; CRACK NON PLANT; CATEGORY 3; 0,01M AVS ETDA SOLUTION;</li> </ul>  | 15                        | EA                     |
| <ul style="list-style-type: none"> <li>CHEMICAL:HYDROCHLORIC ACID 32%;LIQUID,2.5 L</li> </ul>  | 10                        | ea                     |
| <ul style="list-style-type: none"> <li>OXALIC ACID ANHYDROUS; FORM: SOLID; CONTAINER CAPACITY: 500 G; CONTAINER: BOTTLE PLASTIC; COLOR: WHITE; GRADE: AR</li> </ul>  | 30                        | EA                     |
| <ul style="list-style-type: none"> <li>SODIUM CARBONATE ANHYDROUS; FORM: SOLID; CONTAINER CAPACITY: 500 G; CONTAINER: BOTTLE PLASTIC; GRADE: AR; MANUF P/N: 106395</li> </ul>  | 5                         | EA                     |
| <ul style="list-style-type: none"> <li>DPD NO1; FORM: SOLID; CONTAINER CAPACITY: PACKET; CONTAINER: SATCHET; GRADE: AR</li> </ul>  | 100                       | EA                     |
| <ul style="list-style-type: none"> <li>DPD NO3; FORM: SOLID; CONTAINER CAPACITY: PACKET; CONTAINER: SATCHET; GRADE: AR</li> </ul>  | 100                       | EA                     |
| <ul style="list-style-type: none"> <li>BOTTLE: TYPE: SAMPLING BOTTLE; CAPACITY: 1000 ML; MATERIAL: PLASTIC; STYLE: LDPE WIDE NECK SCREW CAP; COLOR: CLEAR</li> </ul>   | 2 000                     | EA                     |
| <ul style="list-style-type: none"> <li>ACETONE; FORM: LIQUID; CONTAINER CAPACITY: 2.5 L; CONTAINER: BOTTLE GLASS;</li> </ul>   | 100                       | ea                     |
| <ul style="list-style-type: none"> <li>ANOLYTE; FORM: LIQUID; CONTAINER CAPACITY: 1.5 L; CONTAINER: GLASS; TRADE NAME: HYDRANAL COULOMAT AG; COMPOSITION: METHANOL; COLOR: LIGHT YELLOW; FLUKA; FOR COULOMETRIC KARL FISCHER TITRATION</li> </ul>  | 30                        | EA                     |

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**Supplier and delivery of laboratory Chemicals,  
Diphoterine and glassware for the period of 60 months.**

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| <ul style="list-style-type: none"> <li>BUFFER SOLUTION PH 10.00; FORM: LIQUID; CONTAINER CAPACITY: 1000 ML; CONTAINER: BOTTLE PLASTIC; COLOR: COLORLESS; GRADE: AR</li> </ul>   | 300 | EA |
| <ul style="list-style-type: none"> <li>BUFFER SOLUTION PH 7.00; FORM: LIQUID; CONTAINER CAPACITY: 1000 ML; CONTAINER: BOTTLE PLASTIC; COLOR: BLUE; GRADE: AR; 1.09439.1000, PH 7.00 (20 GRAD C) CERTIPUR, TRACEABLE TO SRM FROM NIST PTB</li> </ul> | 500 | EA |
| <ul style="list-style-type: none"> <li>BUFFER SOLUTION PH 9.00; FORM: LIQUID; CONTAINER CAPACITY: 1000 ML; CONTAINER: BOTTLE PLASTIC; COLOR: COLORLESS; GRADE: AR;</li> </ul>   | 100 | EA |
| <ul style="list-style-type: none"> <li>CALCIUM STANDARD AMPOULE; FORM: LIQUID; CONTAINER CAPACITY: 100 ML; CONTAINER: PLASTIC; TRADE NAME: CALCIUM STANDARD SOLUTION 1000 PPM AMPOULE; COMPOSITION: AQUEOUS SOLUTION; COLOR: COLORLESS;</li> </ul>  | 30  | EA |
| <ul style="list-style-type: none"> <li>COPPER STD SOLUTION 1000PPM; FORM: LIQUID; CONTAINER CAPACITY: 500 ML; CONTAINER: BOTTLE PLASTIC; COMPOSITION: CU(NO3)2; COLOR: BLUE; GRADE: AR;</li> </ul>  | 30  | ea |
| <ul style="list-style-type: none"> <li>DIISOPROPYLAMINE; FORM: LIQUID; CONTAINER CAPACITY: 2.5 L; CONTAINER: BOTTLE GLASS; COMPOSITION: (CH3)2 CHNHCH(CH3)2;</li> </ul>   | 100 | ea |
| <ul style="list-style-type: none"> <li>DIPHOTERINE SOLUTION; FORM: GAS; CONTAINER CAPACITY: 5 L; CONTAINER: PORTABLE SHOWER DAP;</li> </ul>   | 10  | EA |
| <ul style="list-style-type: none"> <li>DIPHOTERINE WALL MOUNT STATION; FORM: LIQUID; CONTAINER CAPACITY: 500 ML; CONTAINER:</li> </ul>  | 10  | EA |
| <ul style="list-style-type: none"> <li>ETHANOL; FORM: LIQUID; CONTAINER CAPACITY: 2.5 L; CONTAINER: BOTTLE PLASTIC;</li> </ul>  | 30  | EA |
| <ul style="list-style-type: none"> <li>FERROUS AMMONIUM SULPHATE; FORM: SOLID; CONTAINER CAPACITY: 500 G; CONTAINER: PLASTIC</li> </ul>   | 20  | ea |
| <ul style="list-style-type: none"> <li>GLYCERIN; FORM: LIQUID; CONTAINER CAPACITY: 100 ML; CONTAINER: BOTTLE; COLOR: CLEAR; PURE REAGENT USED MAINLY AS A BASE OR MIXING MEDIUM IN MEDICINES, LOTIONS AND CREAMS</li> </ul>                         | 20  | EA |
| <ul style="list-style-type: none"> <li>HYDRANAL COULOMAT CG; FORM: LIQUID; CONTAINER CAPACITY: 5 ML; CONTAINER: VIAL GLASS BROWN; MANUF P/N: 34840;</li> </ul>  | 100 | EA |
| <ul style="list-style-type: none"> <li>HYDRANAL METHANOL RAPID; COMPOSITION: METHANOL; COLOR: COLORLESS;</li> </ul>   | 30  | EA |
| <ul style="list-style-type: none"> <li>HYDROCHLORIC ACID SUPRAPUR 30%; FORM: LIQUID; CONTAINER CAPACITY: 1 L; CONTAINER: GLASS; 30% PURITY; HYDROCHLORIC ACID</li> </ul>  | 40  | EA |
| <ul style="list-style-type: none"> <li>HYDROGEN PEROXIDE; FORM: COLOURLESS LIQUID; CONTAINER CAPACITY: 2.5 L; CONTAINER: BOTTLE PLASTIC; TRADE NAME:</li> </ul>   | 5   | EA |
| <ul style="list-style-type: none"> <li>N-HEXANE; FORM: REFINED LIQUID; CONTAINER CAPACITY: 2.5 L; CONTAINER: BOTTLE; TRADE NAME: N-HEXANE; COMPOSITION: 95 PURE PCT; COLOR: CLEAR</li> </ul>  | 50  | EA |

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**Supplier and delivery of laboratory Chemicals,  
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| <ul style="list-style-type: none"> <li>NITRIC ACID 0.1 NORMAL; FORM: REFINED LIQUID; CONTAINER CAPACITY: VARIABLE; CONTAINER: AMPOULE; TRADE NAME: NITRIC ACID; COMPOSITION: 0.1 NORMAL;</li> </ul>                 | 10  | EA |
| <ul style="list-style-type: none"> <li>NITRIC ACID 65%; FORM: LIQUID; CONTAINER CAPACITY: 2.5 L; CONTAINER: BOTTLE GLASS; COLOR: CLEAR; GRADE: AR;</li> </ul>   | 30  | EA |
| <ul style="list-style-type: none"> <li>POTASSIUM CHLORIDE; FORM: POWDER; CONTAINER CAPACITY: 500 G; CONTAINER: CAN; FOR WATER ANALYSING;</li> </ul>   | 10  | EA |
| <ul style="list-style-type: none"> <li>POTASSIUM DICHROMATE; FORM: SOLID; CONTAINER CAPACITY: 500 G; CONTAINER: BOTTLE PLASTIC;</li> </ul>  | 2   | EA |
| <ul style="list-style-type: none"> <li>POTASSIUM HYDROGEN PHTHALATE; FORM: SOLID; CONTAINER CAPACITY: 500 G;</li> </ul>   | 5   | EA |
| <ul style="list-style-type: none"> <li>POTASSIUM PERMANGANATE; FORM: SOLID; CONTAINER CAPACITY: 500 G;</li> </ul>   | 3   | EA |
| <ul style="list-style-type: none"> <li>POTASSIUM STD SOLUTION; FORM: LIQUID; CONTAINER CAPACITY: 500 ML; CONTAINER: BOTTLE PLASTIC;</li> </ul>  | 10  | EA |
| <ul style="list-style-type: none"> <li>SILICA STANDARD SOLUTION; FORM: LIQUID; CONTAINER CAPACITY: 100 ML; GRADE: AR; PURITY 100% +-1%; 1000PPM SILICATE 0.0001-0.1% WATER BALANCE;</li> </ul>                      | 40  | EA |
| <ul style="list-style-type: none"> <li>SODIUM 1000 PPM; FORM: LIQUID; CONTAINER CAPACITY: 500 ML; CONTAINER: PLASTIC;</li> </ul>  | 40  | EA |
| <ul style="list-style-type: none"> <li>SODIUM STANDARD AMPOULE; FORM: LIQUID; CONTAINER CAPACITY: AMPOULE; CONTAINER: PLASTIC</li> </ul>  | 10  | EA |
| <ul style="list-style-type: none"> <li>SODIUM SULPHATE; FORM: SOLID; CONTAINER CAPACITY: 500 G; CONTAINER: BOTTLE PLASTIC; GRADE: AR</li> </ul>   | 10  | EA |
| <ul style="list-style-type: none"> <li>SULPHATE SOLUTION; FORM: LIQUID; CONTAINER CAPACITY: 500 ML; CONTAINER: BOTTLE PLASTIC; GRADE: AR</li> </ul>   | 6   | EA |
| <ul style="list-style-type: none"> <li>SULPHURIC ACID; FORM: REFINED LIQUID; CONTAINER CAPACITY: 2.5 L; CONTAINER: BOTTLE; TRADE NAME: SULPHURIC ACID; COMPOSITION: 98</li> </ul>                                   | 10  | EA |
| <ul style="list-style-type: none"> <li>TARTARIC ACID; CONTAINER CAPACITY: 500 G; SUPPL P/N: BDH 10277 4H; ANALAR CRACK NON-PLANT, CATEGORY 3; CAS REG 87-69-4;</li> </ul>   | 6   | EA |
| <ul style="list-style-type: none"> <li>CHEMICAL: TOLUENE; CLEAR SOLUTION; 2.5 L</li> </ul>  | 100 | EA |
| <ul style="list-style-type: none"> <li>CHEMICAL: TYPE: TRISODIUM PHOSPHATE; FORM: POWDER; CONTAINER CAPACITY: 25 KG; CONTAINER: BAG PLASTIC;</li> </ul>   | 40  | EA |
| <ul style="list-style-type: none"> <li>CHEMICAL: TYPE: TWEEN 20; FORM: LIQUID; CONTAINER CAPACITY: 500 ML; CONTAINER: GLASS AMBER BOTTLE; COLOR:</li> </ul>   | 5   | EA |
| <ul style="list-style-type: none"> <li>CHEMICAL: TYPE: WATER; FORM: REFINED LIQUID; CONTAINER CAPACITY: 10 UNITS PER PACK; CONTAINER: AMPOULE; TRADE NAME: WATER STANDARD 0.1%;</li> </ul>                          | 40  | EA |
| <ul style="list-style-type: none"> <li>CHEMICAL: TYPE: ZINC 1000 PPM; FORM: LIQUID; CONTAINER CAPACITY: 500 ML; CONTAINER: PLASTIC; TRADE NAME: ZINC STANDARD SOLUTION; COLOR: COLORLESS; NIST Traceable</li> </ul> | 8   | EA |

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| <ul style="list-style-type: none"> <li>CHEMICAL: TYPE: ZINC STANDARD AMPOULE; FORM: LIQUID; CONTAINER CAPACITY: 100 ML; CONTAINER: PLASTIC; TRADE NAME: ZINC STANDARD SOLUTION 1000 PPM AMPOULE; 1000PPM; ZINC STANDARD AMPOULE 0.0001-0.1% WATER BALANCE.NIST TREABLE</li> </ul> | 8   | EA |
| <ul style="list-style-type: none"> <li>FLASK, VOLUMETRIC: TYPE: CLASS A; CAPACITY: 100 ML; MATERIAL: GLASS WITH POLY STOPPER</li> </ul>   | 100 | EA |
| <ul style="list-style-type: none"> <li>FLASK, VOLUMETRIC: TYPE: CLASS A; CAPACITY: 1000 ML; MATERIAL: GLASS WITH POLY STOPPER</li> </ul>  | 200 | EA |
| <ul style="list-style-type: none"> <li>FLASK, VOLUMETRIC: TYPE: CLASS A; CAPACITY: 5000 ML; MATERIAL: BOROSILICATE GLASS</li> </ul>   | 30  | EA |
| <ul style="list-style-type: none"> <li>FLASK, VOLUMETRIC: TYPE: CONICAL; CAPACITY: 250 ML; MATERIAL: PLASTIC; POLYPROPYLENE</li> </ul>  | 100 | EA |
| <ul style="list-style-type: none"> <li>PIPETTE: TYPE: CLASS A; CAPACITY: 2 ML; MATERIAL: GLASS</li> </ul>   | 10  | EA |
| <ul style="list-style-type: none"> <li>PIPETTE: TYPE: CLASS A CAPACITY: 25 ML; MATERIAL: GLASS</li> </ul>   | 10  | EA |
| <ul style="list-style-type: none"> <li>PIPETTE: TYPE: DISCOVERY PRO-SINGLE; CAPACITY: 1 ML; MATERIAL: PLASTIC</li> </ul>  | 6   | EA |
| <ul style="list-style-type: none"> <li>SOAP: TYPE: EXTRAN PHOSPHATE FREE LABORATORY GLASSWARE SOAP; PHYSICAL FORM: LIQUID; SIZE: 5 L</li> </ul>   | 20  | EA |
| <ul style="list-style-type: none"> <li>SOLUTION: TYPE: STANDARD; CONCENTRATION: 1413 US/CM; CONTAINER: PLASTIC BOTTLE 500ML; KCL – 0,01 M @25 DEGREE CELCIUS</li> </ul>   | 60  | EA |
| <ul style="list-style-type: none"> <li>STANDARD, ANALYTICAL TEST: MATERIAL: CALCIUM; WEIGHT: 500 ML; CONCENTRATION: TRACECERT, 1000 MG/L NA IN NITRIC ACID;</li> </ul>  | 6   | EA |
| <ul style="list-style-type: none"> <li>STANDARD, IRON; WEIGHT: 500 ML; STANDARD 1000MG/KG; Solution</li> </ul>  | 6   | EA |
| <ul style="list-style-type: none"> <li>STANDARD, SODIUM STD; WEIGHT: 500 ML; 1000 PPM Solution</li> </ul>   | 5   | EA |
| <ul style="list-style-type: none"> <li>CHEMICAL: TYPE: SODIUM HYDROGEN CARBONATE; FORM: POWDER; CONTAINER CAPACITY: 500 G; CONTAINER: BOTTLE PLASTIC; COLOR: WHITE; GRADE: AR; SPECIFICATION: ISO 9001</li> </ul>   | 5   | EA |
| <ul style="list-style-type: none"> <li>NITRIC ACID 0.1 NORMAL; FORM: REFINED LIQUID; CONTAINER CAPACITY: VARIABLE; CONTAINER: AMPOULE; TRADE NAME: NITRIC ACID</li> </ul>   | 10  | EA |
| <ul style="list-style-type: none"> <li>MAGNESIUM STANDARD AMPOULE; FORM: LIQUID; CONTAINER CAPACITY: 100 ML; CONTAINER: PLASTIC; TRADE NAME: MAGNESIUM STANDARD SOLUTION 1000 PPM AMPOULE; COMPOSITION: AQUEOUS SOLUTION; COLOR: NIST TREABLE</li> </ul>                          | 10  | EA |
| <ul style="list-style-type: none"> <li>SODIUM BICARBONATE; FORM: SOLID; CONTAINER CAPACITY: 500 G; CONTAINER: BOTTLE PLASTIC; GRADE: AR;</li> </ul>   | 6   | EA |
| <ul style="list-style-type: none"> <li>PIPETTE: TYPE: 50ML BULB PIPETTE CLASS A; CAPACITY: 50 ML; MATERIAL: GLASS</li> </ul>  | 10  | EA |
| <ul style="list-style-type: none"> <li>PIPETTE: TYPE: 100ML BULB PIPETTE CLASS A; CAPACITY: 100 ML; MATERIAL: GLASS</li> </ul>  | 10  | EA |

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| • BULB: TYPE: PIPETTE 3ML; DIMENSIONS: 15 CM; MATERIAL: CLASS A   | 5   | EA |
| • A; CAPACITY: 5 ML; MATERIAL: GLASS A  | 20  | EA |
| • PHOSPHATE TEST KIT; FORM: POWDER; CONTAINER CAPACITY: 420 TESTS; CONTAINER: BOX; TRADE NAME: PHOSPHATE TEST; COMPOSITION: SULPHURIC AND ASCORBIC ACID; COLOR: WHITE   | 40  | EA |
| • AMMONIA SOLUTION ANALAR; FORM: SOLUTION; CONTAINER CAPACITY: 2.5 L; GRADE: AR; 25%  | 300 | EA |
| • CHLOROFORM; FORM: REFINED LIQUID; CONTAINER CAPACITY: 2.5 L; CONTAINER: BOTTLE; TRADE NAME: CHLOROFORM; COMPOSITION: >99.8 PURE PCT; COLOR: CLEAR;  | 30  | EA |
| • HYDRANAL COULOMAT A FOR KF; FORM: LIQUID; CONTAINER CAPACITY: 500 ML;   | 30  | EA |
| • FILTER: TYPE: CELLULOSE NITRATE GRIDDED; DIMENSIONS: 47 MM; MATERIAL: PAPER; MICRON: 0.45; MEDIUM: FLITTER PAPER; YES STERILE, 300 PACK   | 40  | EA |
| • KIT, ANALYZING: TYPE: PRE-PACKED REAGENT; COMPRISING: HACH SILICA REAGENT; APPLICATION: HACH DR6000 1-100 MG/L; STANDARD: AR  | 100 | EA |
| • KIT, ANALYZING: TYPE: SAMPLE CELL; COMPRISING: POLYSTYRENE 25ML CELL WITH CAPS; APPLICATION: DETERMINATION OF SILICA; STANDARD: ISO 9001; CAT. 2410212, PK/12   | 50  | EA |
| • KIT, ANALYZING: TYPE: HACH FERROVER, IRON REAGENT; COMPRISING: 100 SACHETS; APPLICATION: DETERMINATION OF IRON; SPECIFICATION: SAMPLE 10 ML; STANDARD: ISO 9001; PK/100 FOR DETERMINATION OF IRON - 2105769 | 100 | EA |
| • NITRATE AMPOULE; WEIGHT: 1000 ML.NIST TREASABLE   | 10  | EA |
| • COPPER 1000 PPM AMPOULE; WEIGHT: 1000 ML; ANALYSIS CERTIFICATES REQUIRED- ANALYSIS CERTIFICATED TO BE ATTACHED  | 5   | EA |
| • IRON 1000PPM AMPOULE; WEIGHT: 1000 ML-NIST TREASABLE- ANALYSIS CERTIFICATED TO BE ATTACHED  | 5   | EA |
| • NITRITE AMPOULE 1000PPM; WEIGHT: 1000 ML NIST TREASABLE- ANALYSIS CERTIFICATED TO BE ATTACHED   | 5   | EA |
| • MAGNESSIUM 1000PPM SOLUTION; WEIGHT: 1000 ML -NIST TREASABLE- ANALYSIS CERTIFICATED TO BE ATTACHED  | 5   | EA |
| • MAGNESSIUM AMPOULE 1000PPM; WEIGHT: 1000 ML- NIST TREASABLE- ANALYSIS CERTIFICATED TO BE ATTACHED   | 5   | EA |

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**Supplier and delivery of laboratory Chemicals,  
Diphoterine and glassware for the period of 60 months.**

Unique Identifier:

**229-T2569**

Revision: 1

**1**

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|  |    |    |
|--|----|----|
| • SILICA AMPOULE 1000PPM; WEIGHT: 1000 ML- NIST TREASABLE- ANALYSIS CERTIFICATED TO BE ATTTACHED   | 5  | EA |
| • NITRITE SOLUTION 1000PPM; WEIGHT: 500 ML- NIST TREASABLE- ANALYSIS CERTIFICATED TO BE ATTTACHED  | 5  | EA |
| • PHOSPHATE SOLUTION 1000PPM; WEIGHT: 500 ML- NIST TREASABLE- ANALYSIS CERTIFICATED TO BE ATTTACHED  | 5  | EA |
| • CHLORIDE 1000PPM SOLUTION; WEIGHT: 500 ML; ANALYSIS CERTIFICATED TO BE ATTTACHED   | 5  | EA |
| • PHOSPHATE AMPOULE 1000PPM; WEIGHT: 1000 ML- ANALYSIS CERTIFICATED TO BE ATTTACHED  | 5  | EA |
| • FLORIDE SOLUTION 1000 PPM; WEIGHT: 1000 ML- ANALYSIS CERTIFICATED TO BE ATTTACHED  | 5  | EA |
| • SULPHATE AMPOULE 1000PPM; WEIGHT: 1000ml- ANALYSIS CERTIFICATED TO BE ATTTACHED  | 5  | EA |
| • CHEMICAL: TYPE: SOLUTION; FORM: LIQUID; CONTAINER CAPACITY: 100 ML; CONTAINER: PLASTIC; COMBINED SEVEN ANION STANDARD II (Phosphate 150 ppm, Sulphate 100 ppm, Chloride 30 ppm, Floride 20 ppm, Bromide 100 ppm,100ppm Nitrite and 100ppm Nitrate)   | 8  | EA |
| • CHEMICAL: TYPE: ALUMINIUM STANDARD AMPOULE; FORM: CHEMICALS; CONTAINER CAPACITY: 1L; CONTAINER: PLASTIC  | 5  | EA |
| • CHEMICAL: TYPE: ALUMINUM 1000 PPM; FORM: LIQUID; CONTAINER CAPACITY: 250 ML; CONTAINER: PLASTIC; TRADE NAME:   | 5  | EA |
| • 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;  | 5  | EA |
| • CHEMICAL: TYPE: NITRIC ACID 65% <b>SUPRAPUR</b> ; 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 | 10 | EA |

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## 2. Revisions

| Date      | Rev. | Compiler     | Reason for change |
|-----------|------|--------------|-------------------|
| 06/072024 | 1    | HD Mahakalla | Original Document |

## 3. Development Team

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

- Dyondzo Shikwambane
- Hellen Mahakalla
- Pierre Leibbrandt
- Ntombi Ngobese

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