

Ref no. TCTA 08-032 -A03

4 AUGUST 2020

**RFT FOR THE OPERATION AND MAINTENANCE OF THE AMD TREATMENT PLANT AT
EASTERN BASIN**

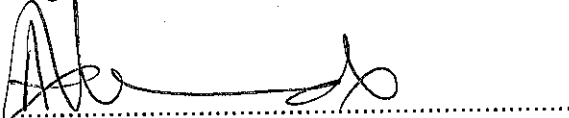
ADDENDUM NO 3

Herewith please find Addendum No 3 which forms an integral part of the above-mentioned contract.

PLEASE ACKNOWLEDGE RECEIPT OF THIS ADDENDUM AS FOLLOWS:

1. Complete the section below and **without delay** email a copy of this page to TCTA, email address tenders01@tcta.co.za; for the attention of The Receiving Officer to confirm that you have received this addendum.

Regards



Azwi Nelwamondo
Senior Manager: Procurement

I/We herewith acknowledge receipt of ADDENDUM NO 3 for CONTRACT NO. TCTA-08-032

SIGNATURE: DATE:

ON BEHALF OF:

ADDENDUM NO 3

1. ANNEXURE H-CHEMICAL SPECIFICATION

The chemical specification is hereby added to the Annexure H of this RFT (refer to attachment 1 of this addendum)

2. LABORATORY ASSET REGISTER

This register is hereby added to this RFT (refer to attachment 2 of this addendum)

3. MINIMUM SECURITY EQUIPMENT REQUIRED

This minimum requirement is hereby added to this RFT (refer to attachment 3 of this addendum)

ATTACHMENT 1-CHEMICAL SPECIFICATION

PYD-1.1 Lime and Limestone Products

Types of Lime / Limestone

This specification deals with the following lime / limestone products:

- Calcium Oxide (CaO), also known as quicklime, unslaked or unhydrated lime, and
- Calcium Carbonate (CaCO₃), also known as Limestone.

The following minimum specifications are applicable to the products supplied:

Quicklime: Calcium Oxide (CaO)

Property	Min/Max as Specified %	
Available calcium as CaO	89.0	
Total calcium as CaO	92.0	
Total magnesium as MgO	2.0	
Silica as SiO ₂	2.0	
Manganese as Mn ₂ O ₃	1.2	
Iron as Fe ₂ O ₃	0.5	
Aluminium as Al ₂ O ₃	0.3	
Carbon Dioxide (CO ₂)	2.0	
Free Carbon as C	<0.01	
Sulphur as SO ₃	<0.05	
Phosphorous as P ₂ O ₅	<0.01	
Bulk density (kg/m ³)	Aerated	De-aerated
	800 - 900	1000 - 1300
Size	<250µm	

Limestone: Calcium Carbonate (CaCO₃)

Property	Min/Max as Specified %	
Calcium Carbonate as CaCO ₃	96.0	
Magnesium as MgCO ₃	2.2	
Silica as SiO ₂	0.8	
Manganese as Mn ₂ O ₃	0.7	
Iron as Fe ₂ O ₃	0.2	
Aluminium as Al ₂ O ₃	0.2	
Sulphur as SO ₃	<0.03	
Phosphorous as P ₂ O ₅	<0.005	
Ignition loss	43.6	
Bulk Density (kg/m ³)	Aerated	De-aerated
	600 - 1000	1200 - 1700
Size	<100µm	

ATTACHMENT 2-LABORATORY ASSET REGISTER

Major Asset List

APPARATUS INDEX

Laboratory ID Code	Manufacturer	Description	Serial Number	Calibrated	Next External Calibration / Service
Major					
EB-A1	Snug	Top Loading Balance(Max 3000g)	1509111600133		
EB-A2	Hach	DR 6000 Spectrophotometer	1603439		
EB-A3	DryVac	Vacuum Pump	167400-22-AEA251		Never serviced.
EB-A4	Hach	2100N Turbidimeter	16020C033938		
EB-A5	Labcon	Magnetic Stirrer with Hot plate	134740		Not working
EB-A6	Hach	Hq11d IntellICAL Meter pH	160300023450		
EB-A7	Hach	Hq14D IntellICAL Meter Cond	160300023457		
EB-A8	Hach	HQ40d IntellICAL Meter	151200019124		
EB-A9	Scientifica	Jar Tester	353877		
EB-A10	Hach	LDO Robust Probe 5m cable	15282259992		
EB-A11	Hach	LDO101 Probe - Dissolved Oxygen	153102598010		
EB-A12		40L Digital Oven-275	134740		
EB-A13	Hach	pHC201 - pH Probe	173262618022		
EB-A14	Vibra	Analytical Balance - HTR Series	141996049		
EB-A15	scientific	steam bath			not available on-site
EB-A16	Hach	ODC401 conductivity probe	160702588007		
EB-A17					
EB-A18					
EB-A19					
EB-A20					
EB-A21					
EB-A22					
EB-A23					
EB-A24					

Updated: 30/04/2018

Minor Asset List

APPARATUS INDEX

Laboratory ID Code	Manufacturer	Description	Quantity
Minor			
EB-B1		Buchner Funnel	1
EB-B2	Glassco	Buchner Funnel Jar	1
EB-B3		Burette Stand	1
EB-B4	Glassco	Burette With Glass Key Stopcock Class AS 10ml	1
EB-B5		Burette With Glass Key Stopcock Class AS 25ml	1
EB-B6		Burette With Glass Key Stopcock Class AS 50ml	1
EB-B7	Glassco	Crystalizing Dishes	5
EB-B8		Desiccator	1
EB-B9	Glassco	Elenmeyer Flask 100ml	4
EB-B10	Glassco	Elenmeyer Flask 250ml	4
EB-B11	Hach	JarTester Jars - 1000 ml beakers	5
EB-B12		Measuring Cylinder 1000ml Class A	4
EB-B13		Measuring Cylinder 1000ml Plastic	6
EB-B14		Measuring Cylinder 500ml Class A	4
EB-B15		Measuring Cylinder 50ml Class A	0
EB-B16		Measuring Cylinders Glass 100ml	2
EB-B17		Pipette Glass 10ml(bulp pipette)	4
EB-B18		Probe Stand for two probes	1
EB-B19	Hach	Sample Cells 10ml Matched pair for Hach DR6000	3 Sets
EB-B20	Hach	Turbidity Calibration Set	1
EB-B21	Glassco	Volumetric Flask 1000ml Class A	4
EB-B22	Glassco	Volumetric Flask 500ml Class A	4
EB-B23	Glassco	Volumetric Flask Glass 100ml	4
EB-B24	Glassco	Volumetric Pipette 100ml Class AS	1
EB-B25		Volumetric Pipette 10ml Class AS	1
EB-B26	Glassco	Volumetric Pipette 1ml Class AS	5
EB-B27	Glassco	Volumetric Pipette 2ml Class AS	4
EB-B28	Glassco	Volumetric Pipette 50ml Class AS	0
EB-B29		Volumetric Pipette 5ml Class AS	0
EB-B30		Volumetric pipette(graduated) 25 ml class AS	1
EB-B31		pipette filler	2

ATTACHMENT 3-MINIMUM SECURITY EQUIPMENT REQUIRED

Table 1: Minimum Security Equipment Requirements

Active Track & Charger	03
Baton & Holster	03
Hand Cuffs & Holster	10
Incident Report Book	02
OB Book	04
Training Register	01
Pocket Books	11
Black & Red Pen	10
Handheld Radios	06
Handheld Radio chargers	06
Base Radio	01
Bullet Trap	0
Torches	06
Torch Chargers	06
Firearm	03
Baton stick holders	11
Umbrella	02
Cellphone/s	01
Pepper spray	11