

Item no	Description	UOM	QTY	Rate	Amount
<b>1</b>	<b>Duplex Filter Stator</b>				
1.1	Supply and deliver the Stainless steel Duplex filter change-over demin water filtration assembly, including assembling of the full set, commission and testing. It had S/S duplex filter unit C/W 3 way change-over and purge valve and DP gauge 2 X 2M S/S DP filter hoses with quick connectors 12X S/S DP filter flanges wo. 12X S/S DP T-piece wo. 6X vit lined DP isol valve 6X S/S DP filter male couplings 6X S/S DP filter female couplings 1X S/S DP filter unit centre pump and motor ass. S/S filter unit socket DP filter ass to be frame mounted and mobile				
1.1.1	Supply and delivery of Duplex Filter Stator	no	1		
<b>2</b>	<b>Dissolved oxygen analysers</b>				
2.1	Supply and delivery of Dissolved oxygen analyzers for stator cooling water system. Dissolved oxygen analyzer/ instrument intended to do on field measurements with measuring low levels range of 0-2000ppb. The set must include complete online dissolved oxygen analyser including the sensor and other consumables like associated cables for connection and the onsite calibration kit. Installation, commissioning and training on use of the analyzer & basic maintenance to be conducted onsite must be included.				
2.1.1	Dissolved oxygen analyzers for stator cooling water system.	no	5		
<b>3</b>	<b>Sodium Analyzer</b>				
3.1	Supply and deliver analyzer for the measurement of sodium ions. Complete system with transmitter, sensors, flow cell with sample flow monitoring, passive reagent dosing and device for calibration / random sampling on a 280 x 850 mm stainless steel mounting plate. 100-240 VAC, 50/60 Hz. Each set should include all other consumables required for commissioning and instrument functional checks. These include but not limited to sodium standard solutions, etching kit, electrolyte for sodium reference , air filters, calibration bottle, etc. Include installation and commissioning and training of onsite Eskom personnel on basic instrument maintenance.	no	1		
<b>4</b>	<b>AUTOMATIC CATION RESIN REGENERATION STATION</b>				
4.1	Supply and deliver automatic cation resin regeneration station; application: chemical lab; dimensions: wd 600 x lg 1310 x ht 1690 mm; material: en57; cation regeneration station, rs 4 built on a mobile stainless-steel frame with secured guide roller base. 4 x filters pe16 (3l) ion exchange resin container, 75l regeneration container, acrylic pp, pvc piping able to handle 45% sulphuric acid, material pp, acrylic and hose with nozzle g1/4 x 8mm stainless still conductivity meter control unit type simatic s7-200 cpu 224, 24v dc, display: simatic s7-200 td 200 with control buttons switching range dc 300v / ac 250v, constant current load:7a.	no	1		
<b>5</b>	<b>Sample Cooler TLR4225</b>				
5.1	Supply and Delivery of Sample Cooler TLR4225 - Tube design: 5000 psi @ 1000F Tube material: 1/4" OD 316 s.s. Shell design: 450 psi @ 650F Shell material: 304 s.s. Part Number: S-7-03951A	no	10		
<b>6</b>	<b>Autotitrator with autosampler</b>				
6.1	Supply, delivery, commissioning and training of 1x Auto Titrator with touch terminal, computer and instrument control software where the auto titrator must be capable of performing complexometric, redox, photometric, argentometric, thermometric and acid-base titrations. Must include all necessary accessories to perform the following water analysis: pH, total alkalinity, conductivity, total hardness (photometrically), calcium hardness (photometrically), magnesium hardness (photometrically) in one sample.	no	1		
<b>7</b>	<b>Total Organic Carbon Analyser</b>				
7.1	Supply, delivery, commissioning and training on Total Organic Carbon benchtop analyser. Powersource 220-240V lowest detection 0.050ppm simultaneous analysis of Total Carbon, Inorganic Carbon, Total Organic Carbon and Dissolved Organic Carbon. Analysis method: High temperature catalytic up to 950 degrees Celsius. Sample injection automated septumless rotary injection port, gas CO2 free synthetic or zero grade method EPA 415.1, Standard methods 5310B, ASTM D5173, EN 1484 USEPA 9060, ISO 8245, DIN 38409 H3. Required for analysis in septum sealed vials of 40ml, CO2 Scrubber. Autosampler to be included, PC and operating software.	no	1		
<b>8</b>	<b>Portable Turbidity Meter</b>				
8.1	Supply, delivery, commissioning and training of Turbidity meter. Supply primary standards that are reusable and stable with long shelf life. Supply sample cuvettes x 5, calibration cuvettes, silicone oil, cuvette wiping cloth, batteries, AC Adapter, instruction manual, instrument quality certificate	no	1		
8.2	Delivery	no	1		
<b>9</b>	<b>SCAN AUTOMATIC COLONY COUNTER, Scan 1200</b>				
9.1	Supply of Scan 1200 HD colony counter	no	1		
9.2	Team travel to Majuba and installation (half day)	no	1		
9.3	On-site delivery	sum	1		
9.4	HP Pro Mini 400 G9 Desktop PC, 13th Generation Intel Core i5-13500T Processor, 8GB DDR4 3200MHz RAM, 512GB M.2 PCIe NVMe Solid State Drive, Includes HP 125 Wired Keyboard & HP & 125 Wired Mouse, Windows 11 Pro 64-Bit 3	no	1		
9.5	Dell E2425HS 24" Full HD Monitor, Resolution: 1920 x 1080	no	1		
<b>11</b>	<b>Waterproof Portable EC/TDS/Resistivity/Salinity Meter</b>				
11.1	Supply and Delivery of EC/TDS/Resistivity/Salinity Meter	no	2		
<b>12</b>	<b>Water System</b>				

	Genie U 12 System, with TOC Feed: tap water Product: Type I and RO Water System includes 1. Main system 2. Control Console 3. One Dispenser 4. RO membrane(s) 5. UV preinstalled 6. Genie Cleaning Pack 7. Four cartridges and a final filter 8. 30L tank and vent filter 9. Leak protector				
12.1	10. RR700T101 for tank recirculation models	no	1		
12.2	PreFilter Stand (no cartridge)	no	1		
12.3	Cartridges for water system	no	1		
12.4	Labour	no	6		
12.5	Travel	km	600		
<b>20</b>	<b>Membrane filtration system manifold six places</b>				
	Stainless Steel Manifold FR6X100. 6 funnels 100ml for 47mm filter membranes, lids, clamps and filter supports. Viton sealing rings for lids, cap and hose nipple connector. Sterilisation by autoclaving 121°C.				
20.1	Tariff number: 8421 2990	no	1		
20.2	5 l vacuum flask with side arm	no	1		
20.3	Silicone tubing 6mm ID 13MM OD 3 meter	no	1		
20.4	BioSart250 Funnel Sterile Plastic 50 units	no	1		
20.5	VACUSART Pore Size: 0.45 µm Connectors: Stepped hose barb Units/Pack: 3, Unsterile	no	1		
20.6	STAINLESS STEEL TWEEZERS;	no	1		
<b>21</b>	<b>Membrane filtration system vacuum pump</b>				
21.1	Vacuum pump for 6 branch manifold max flow rate 59 l/min	no	1		
<b>23</b>	<b>10" PRE-FILTRATION</b>				
23.1	10" BLUE FILTER HOUSING	no	1		
23.2	FILTER HOUSING SUPPORT BRACKET	no	1		
23.3	FILTER HOUSING SPANNER	no	1		
23.4	SUPACARB FILTER, 5u 10"	no	1		
<b>25</b>	<b>N 816.1.2 KT 18 PUMP</b>				
	100 % oil-free transfer – thereby pure transferring, evacuation and compression of gases PTFE-coated diaphragm is ideal for aggressive/ corrosive gases and vapours Environmentally friendly High level of gas tightness				
25.1		no	1		
<b>26</b>	<b>MICROBIOLOGY LAB FRIDGES</b>				
26.1	LABOCOOL D/D FRIDGE 964L WITH CONTROLLER	no	2		
<b>27</b>	<b>pH Meters</b>				
	Orion Pro Star PH211 pH/ORP bench meter durable ki Package includes: 9157BNMD pH/ATC Triode Buffer package 910199 - buffer 4.01, 7.00 and 10.01 (60ml), pH storage 910001				
27.1		no	2		
<b>28</b>	<b>CONDUCTIVITY METER</b>				
	ORION STAR A122 COND. PORT KIT Thermo Scientific Orion Star A122 Conductivity Portable Meter combine simplicity with accuracy. A large LCD displays conductivity or TDS readings along with temperature. Icons provide quick updates on battery life and completed calibration status. AUTOREAD locks in the stable reading on your screen and ready indicator alerts when readings are stable				
28.1		no	2		
<b>29</b>	<b>Colour Printer</b>				
29.1	HP Color LaserJet Pro MFP 3303fdw Printer (499M8A)	no	1		
<b>30</b>	<b>Furniture</b>				
30.1	Laboratory Mobile Bench 1500mm x 750mm x 900mm	no	6		
30.2	Installation	no	6		
30.3	Freight	no	1		
<b>31</b>	<b>Resin attachments</b>				
31.1	Hose Clamp Galvanised - 102 x 127mm	no	2		
31.2	Hose Clamp Galvanised - 14 x 27mm	no	2		
31.3	Hose Clamp Galvanised - 14 x 32mm	no	2		
31.4	Hose Clamp Galvanised - 17 x 38mm	no	2		
31.5	Hose Clamp Galvanised - 19 x 44mm	no	2		
31.6	Hose Clamp Galvanised - 25 x 51mm	no	2		
31.7	Hose Clamp Galvanised - 38 x 63mm	no	2		
31.8	Hose Clamp Galvanised - 44 x 70mm	no	5		
31.9	Hose Clamp Galvanised - 57 x 82mm	no	5		
31.10	Hose Clamp Galvanised - 70 x 95mm	no	5		
31.11	20mm PVC pipe saddle	no	10		
31.12	25mm PVC pipe saddle	no	10		
31.13	32mm PVC pipe saddle	no	10		
31.14	40mm PVC pipe saddle	no	10		
31.15	50mm PVC pipe saddle	no	10		

31.16	Flexi Hose for Pressure Vessel- 1"MX1"F Curved	no	5		
31.17	Suction Hose - Medium Duty 75mm	m	100		
31.18	25mm clear hose reinforced	no	50		
31.19	Silo stand 27 000L galvanised	no	1		
32	TANK SILO 27000LT	no	1		
<b>GRAND TOTAL</b>					<b>R</b>
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