SANBI
Biodiversity for Life
South African National Biodiversity Institute

PROJECT NAME	**APPOINTMENT OF A SERVICE PROVIDER FOR THE COMPLETION OF THE DRY ROOM AND MINOR REPAIR WORK TO THE SEEDBANK FACILITY AT THE KIRSTENBOSCH NATIONAL BOTANICAL GARDEN, CAPE TOWN**
CLIENT	**SANBI**
PROJECT NO.	**G591/2026**
DOCUMENT TITLE	**APPENDIX E – EQUIPMENT OFFERED**
REVISION	**00**

EMPLOYER	**CONSULTING ENGINEERS**
SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) RHODES DR, NEWLANDS, CAPE TOWN, 7735	OPTIMUM ENGINEERING CONSULTANTS UNIT 46 - DERBY RANCH 182 DERBY RANCH NORTHRIDING 2169

DOCUMENT CONTROL

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ECSA Project Stage	Stage 4: General Specifications
Document Type	Appendix E – Equipment Offered
Installations	Mechanical
OPT File Number	OPT19

	COMPILED	**REVIEWED**	**SIGNED**	**APPROVED**
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ORGANISATION	Optimum Engineering Consultants	Optimum Engineering Consultants	Optimum Engineering Consultants	
DESIGNATION	Design Engineer	Project Engineer	Principal Engineer	

EQUIPMENT OFFERED SCHEDULE

(TO BE FILLED OUT AND SUBMITTED WITH SUPPORTING CORRESPONDING DATASHEETS)

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1. CONDENSER OFFERED

Item	Offered Equipment (By Contractor)
Manufacturer	
Model Number	
Refrig Capacity	
Power Input	
Capacity Control	
Refrigerant Type	
Refrigerant Charge	
GWP	
SEPR – MT (-10°C)	
SEPR – LT (-35°C)	
Rated COP @ 32°C	
Sound Pressure Level	
Dimensions (HxWxD)	
Weight	
Compressor Type	
Fan Type	
Airflow	
Electrical Supply	
Operating Range	
Notes	

2. AIR-HANDLING UNIT

Item	Offered Equipment
Manufacturer	
AHU Model	
AHU Reference	
No. of Modules	
Construction	
Heat Recovery	
Panel Material	
Airflow (Supply)	
Fresh Air Damper	
Return Air Damper	
Economy Cycle Damper	
Return Air Plenum	
Casing Materials	
Unit Dimensions	
Unit Weight	
Controller	

3. FILTER SECTIONS (Primary / HEPA / Bag)

Item	Offered Equipment
Primary Filter	
HEPA Filter	
Bag Filter	
Magnehelic Gauge	

4. COOLING COIL – DX (R410A)

Item	**Offered Equipment**
Coil Type	
Cooling Duty	
Circuits	
Number of Rows	
Fins per inch	
Fin Material	
Tube Material	
Airflow Across Coil	
Coil Face Velocity	
Pressure Drop	
Entering Air Temp	
Leaving Air Temp	
Refrigerant	
Condensate Produced	

5. ELECTRIC HEATER BANK

Item	Offered Equipment
Heating Capacity	
Stages	
Airflow	
Leaving Air Temp	
Pressure Drop	

6. FAN SECTION – SUPPLY FAN

Item	Offered Equipment
Fan Model	
Quantity	
Airflow	
Total Pressure	
Static Pressure	
Motor Input Power	
Sound Levels	
Rotation Speed	
Accessories Required	

7. ACCESSORIES & ADDITIONAL ITEMS

Item	Provided / Not Provided
Bulkhead Lights & Switch	Provided / Not Provided
Magnehelic Gauge Assembly	Provided / Not Provided
Magnehelic/Manometer Cover	Provided / Not Provided
VRF Kit Fitment	Provided / Not Provided
VRF Electrical Interface	Provided / Not Provided
VEE Drip Tray	Provided / Not Provided
Isolator – GEWISS Large	Provided / Not Provided
Emergency Stop Button	Provided / Not Provided

**** Delete/Cross-out whichever is not applicable.***