

## OFFICE OF THE SUPPLY CHAIN MANAGEMENT

### 1.1 DESCRIPTION OF SERVICE:. SUPPLY AND DELIVERY OF A NANOPHOTOMETER

#### **BACKGROUND:**

A NanoPhotometer is required for quantification of dsDNA, ssDNA, RNA, mRNA, miRNA, oligos, antibodies or proteins for all molecular work. Extremely sensitive. NanoPhotometer is more accurate in quantifying DNA and RNA quality and quantity than the nanodrop spectrometer, which is what is currently being used. A NanoPhotometer has comparable efficacy to the Qubit 4 fluorometer, however, the NanoPhotometer does not require special software, no special buffers or reagents and maintenance and servicing is not required unlike the Qubit fluorometer. The current nanodrop spectrometer in plant protection division is faulty, reading the quantity of DNA as a negative which is impossible. A new power supply did not fix the issue and the nanodrop cannot be serviced anymore. A NanoPhotometer is more accurate and can be used for a wide range of molecular functions which combines functions of the nanodrop and qubit fluorometer without maintenance or additional costs. The NanoPhotometer will increase the realm of possible projects that is currently not possible in the group

#### **PURPOSE**

NanoPhotometer quantifies DNA and RNA which is an essential laboratory equipment for researchers engaged in molecular work that are dependent upon research using PCR and qPCR.

#### **SCOPE OF WORK**

Supply, and delivery of a Nanophotometer to the ARC Nietvoorbij Plant Protection division on the corner of R44 and Helshoogte road, Stellenbosch

SPECIFICATION	Comply with specification. Please indicate (Yes or No)		
	Yes	No	If no, indicate deviation
1. A NanoPhotometer without screen			
1.1 Must be able to take at least 1 sample per time			
1.2 Full spectrum scan must be 200-650nm or better			
1.3 Sample volume between 0.3-5uL			
1.4 dsDNA detection minimum of 5ng/uL or lower			
1.5 BSA range must be 0.15 - 217 mg/ml or better			
1.6 Must not have a build-in vortex			
1.7 Not have a build-in battery pack			

1.8 Measure time for full scan: 2.5-4 seconds or faster				
1.9 Preprogrammed applications for at least nucleic acids including DNA, RNA and oligos				
1.10 Voltage 90/250V				
1.11 Wavelength Accuracy: $\pm 1.5$ nm or better				
1.12 Must be compatible with Windows 10; iOS; Android				
1.13 Must not require any recalibration over the entire lifetime of machine				
1.14 Must have WiFi, USB A/B, HDMI, and/or LAN/ethernet connection ports				
1.15 Touchscreen not required, please quote with and without screen				
1.16 Must not have a cuvette application				
<b>GENERAL CONDITIONS FOR THE PURCHASE ORDER AGREEMENT</b>				
The original equipment manufacturer should provide a standard warranty (please specify) on the equipment with authentic certification.				
The participating vendor should be either a principal manufacturer or an authorized distributor/dealer of the manufacturer (please provide evidence on official letterhead) of the equipment with proven after sales support (please provide official certification to support this)				
The specifications provided herein should be authenticated by brochures. Technical catalogue or brochure of the model quoted upon must be provided.				
Quote must include delivery and taxes.				

## 1.2 PRICING SCHEDULE

Item description	QTY	Unit price	Total Price
NanoPhotometer	1		
Other:			
SUBTOTAL			
VAT			
GRANDTOTAL			

### 1. The specification prepared by

Name:

Dr. Minette Havenga

Date:

2023/08/08

Signature



### 1. The specification approved by commodity specialist

Name:

Prof. Francois Halleen

Date:

2023/08/10



Signature.....

## EVALUATION PROCESS & CRITERIA STAGE ONE FOR .....

### ADMINISTRATIVE COMPLIANCE EVALUATION OF ALL PROPOSALS

	Comply with specification. Please indicate (Yes or No)		
	Yes	No	If no, indicate deviation
<b>EVALUATION PROCESS: NB: It must be noted that ARC reserve the rights to request for clarification if all the below questions are not answered properly.</b>			
<b><u>STAGE ONE: ADMINISTRATION COMPLIANCE</u></b>			
<p>All suppliers are duly lodged will be examined to determine compliance with quoting requirements and conditions. Quotes with obvious deviations from the requirements/conditions, <b>will be eliminated or disqualified from further adjudication.</b></p> <p><b>(a) Mandatory</b></p> <p>Quotes will only be compliant if supplier has submitted the following documents:</p>			
<p><b><i>Administrative documents</i></b></p> <p>1. According to National Treasury SCM Instruction number 4 of 2016/2017, only suppliers who are registered on Central Supplier Database (CSD) may be appointed. Suppliers is therefore encourage to register their entities on CSD, <a href="http://www.csd.gov.za">www.csd.gov.za</a> and such information will be verified through Central Supply Database (CSD);</p>			
2. All SBD documents must be submitted and completed;			
3. The supplier must comply with all the specification			
4. Valid tax pin certificate			
<p><b>(b) Non-Mandatory</b></p> <ul style="list-style-type: none"> <li>Valid B-BBEE certificate or sworn affidavit certify by commissioner of oaths.</li> </ul>			

### **SUPPLIER'S DETAILS**

Company Name: .....

Contact person: .....

Contact number & Email : .....

Date & Signature: .....