

## REQUEST FOR QUOTATION FOR GOODS AND SERVICES



PM

ONDERSTEPSPOORT BIOLOGICAL PRODUCTS LTD  
PRIVATE BAG X7, ONDERSTEPSPOORT 0110

From:  
Date: 16<sup>th</sup> September 2021  
Tel: 012 522 1500  
Fax:  
Email: purchasing@obpvaccines.co.za

To:  
Supplier:  
Tel:  
Fax:  
Email:

Kindly provide the quotation for the following: RFQ: OBP 700/2021

Quantity	Product/Item Code	Specification
		<u>Remote Monitoring System:</u>

### Inquiry Specifications for Remote Monitoring System:

*A Remote Monitoring System is required to be supplied, installed, calibrated, commissioned and qualified at OBP Onderstepoort. The system is intended to measure, record, monitor, and alarm multiple parameters and conditions in various buildings throughout the OBP Onderstepoort site. The system will be used for early warning of equipment failure, and also for primary quality data used in the manufacture of animal vaccines.*

#### 1. Supplier Technical Requirements:

1.1. Supplier must have experience, competence, and expertise in the supply and installation of Remote Monitoring Systems.

#### 2. Safety Requirements:

- 2.1. Supplier must submit a **hardcopy** Safety File for review by OBP **7 days before** booking the start of any onsite service work.
- 2.2. Supplier must provide all necessary PPE for service technicians (Gloves, Safety Shoes, Overall, etc).
- 2.3. Any Electrical installation work must be performed by a suitably qualified electrician. Certificates of Compliance, must be supplied for any electrical installation work performed.

### 3. System Requirements:

- 3.1. A Remote Monitoring System is required to be supplied, installed, calibrated, commissioned and qualified at OBP Onderstepoort. The system is intended to measure, record, monitor, and alarm multiple parameters and conditions in various buildings throughout the OBP Onderstepoort site. The system will be used for early warning of equipment failure, and also for primary quality data used in the manufacture of animal vaccines.
- 3.2. All measured parameters must be able to be viewed in real time on a local display, as well as remotely via a secure, remote connection. (Remote data must be near-real time, with a delay of no more than 10 minutes)
- 3.3. Measured values must be continuously collected and stored on the sensor modules, awaiting transfer to the host server. The sensor modules must continue to store and buffer data even during extended network outages and power failures.
- 3.4. Measured values must be recorded (logged) at regular intervals on a secure database hosted by the supplier. OBP will have access to this data through a secure web interface.
- 3.5. The system must include alarm functionality to alert users whenever a measured parameter falls outside of an individual pre-defined alarm condition. Alarms must be indicated locally, as well as remotely, according to a list of alarm recipients which are pre-defined for each measured parameter. Remote alarms should be sent to recipients' cell phones. The alarm function must allow for alarm recipients to acknowledge an alarm, before it is escalated to the next recipient on the list.
- 3.6. The Remote Monitoring System modules should be powered from non-essential electrical supply, and must include built-in battery back-up which will allow it to operate without mains power for at least 48hrs.
- 3.7. The Remote Monitoring System modules should be based on a wireless communication technology so as to eliminate the need for physical communications wiring. The wireless network should be self-adaptable, and self-healing.
- 3.8. Sensors should be chosen to suit the different monitoring functions required in the network. This may include temperature sensors for ambient-, refrigerated-, and ultra-low temperature storage, level sensors, switches, voltage sensors, etc.
- 3.9. The measuring modules or sensors must have provision for calibration adjustment from time-to-time. Measurement accuracy and stability will be considered when evaluating system proposals (for temperature readings, a sensor accuracy of  $\pm 0.5\text{degC}$  or better is expected)
- 3.10. The user access software / interface should include graphical trend displays, pre-configured trend reports, alarm history, and audit trails for all user-, and system activity. User access should be controlled by individual passwords and access levels.

- 3.11. The user access software / interface must be 21CFR part11/ EU or PIC GMP Annex 11 compliant; and the whole remote monitoring system should be qualifiable.
- 3.12. IQ and OQ protocols should be provided by the supplier; with execution conducted under supervision of OBP personnel.
- 3.13. The system should be easily expandible, but should initially allow for the measurement points listed in **APPENDIX A: Draft Sensor Measurement & Alarm Points**

4. System Support:

System support service should include:

- 4.1. Real-time remote user support, with onsite support within an agreed response time
- 4.2. System and database management
- 4.3. Sensor inventory management
- 4.4. Site calibration management
- 4.5. Management of all alarm parameters and configuration
- 4.6. User management
- 4.7. User training

**APPENDIX A: Draft Sensor Measurement & Alarm Points**

Site	Asset	Sensor	Alarm Threshold
BLOCK - L	102-0-02 WI-INC	102 - 0 - 02 WI Incubator	Not between 35°C and 39°C
BLOCK - L	102-CR-02	101 - CR - 02	Not between 2°C and 8°C
BLOCK - L	Freezer NR1	Freezer NR1	Not between -25°C and -15°C
BLOCK - L	Freezer NR2	Freezer NR2	Not between -25°C and -15°C
BLOCK - L	Freezer NR3	Freezer NR3	Not between -25°C and -15°C
BLOCK - L	Freezer NR4	Freezer NR4	Not between -25°C and -15°C
BLOCK - L	Freezer S/N 05891	Freezer S/N05891	Not between -25°C and -15°C
BLOCK - L	Freezer S/N 05895	Freezer S/N05895	Not between -25°C and -15°C
BLOCK - L	Unassigned	Block L Mains Power	Off
BLOCK - M (Bacterial Vaccines)	101-CR-01	101-CR - 01	Not between 2°C and 8°C
BLOCK - M (Bacterial Vaccines)	101-CR-04	101 - CR - 04	Not between 2°C and 8°C
BLOCK - M (Bacterial Vaccines)	101-INC-01	101 - INC - 01	Not between 35°C and 39°C
BLOCK - M (Bacterial Vaccines)	101-INC-02	101 - INC - 02	Not between 35°C and 39°C
BLOCK - M (Bacterial Vaccines)	101-INC-03	101- INC - 03	Not between 35°C

Vaccines)			and 39°C
BLOCK - M (Bacterial Vaccines)	101-INC-04	101 - INC - 04	Not between 35°C and 39°C
BLOCK - M (Bacterial Vaccines)	Unassigned	BLOCK - M Mains Power	Off
BLOCK - N (BACTERIA VACCINES)	101-CR-03	101-CR-03	
BLOCK - N (BACTERIA VACCINES)	101-CR-05	101 - CR - 05	Not between 4°C and 8°C
BLOCK - N (BACTERIA VACCINES)	101-FS-04	101 - FS - 04	Not between -20°C and -15°C
BLOCK - N (BACTERIA VACCINES)	Freezer 14-100-FS-02	Freezer 14 - 100 - 75 - 02	Not between -20°C and -15°C
BLOCK - N (BACTERIA VACCINES)	Fridge 101-FT-03	Fridge 101 - FT - 03	Not between 4°C and 8°C
BLOCK - N (BACTERIA VACCINES)	Unassigned	BLOCK - N (BACTERIA VACCINES) Mains Power	Off
BLOCK - N (VIRAL VACCINE)	102-CR-04	102 - CR - 04	Not between 2°C and 8°C
BLOCK - N (VIRAL VACCINE)	102-FS-07	102 - FS - 07	Not between -25°C and -15°C
BLOCK - N (VIRAL VACCINE)	102-INC-05	102 - INC - 05	Not between 35°C and 39°C
BLOCK - N (VIRAL VACCINE)	Unassigned	BLOCK - N (VIRAL VACCINE) Mains Power	Off
BLOCK - O	102-CR-05	102 - CR - 05	Not between 2°C and 8°C
BLOCK - O	103-INC-03	103 - INC - 03	Not between 35°C and 39°C
BLOCK - O	DB-OA-C345 WICR	OB - 0A - C345	Not between 2°C and 8°C
BLOCK - O	INC 2	INC2	Not between 35°C and 39°C
BLOCK - O	Unassigned	BLOCK - O Mains Power	Off
BLOCK - R	100-CR-05	100-CR-05	Not between 2°C and 8°C
BLOCK - R	Incubator	Block R room 9	Not between 35°C and 39°C
BLOCK - R	100-CR-04	100-CR-04	Not between 2°C and 8°C
BLOCK - Raw Material	Raw Material WICR	Raw Material CR	Not between 2°C and 8°C
BLOCK - O	Freezer	Room 12 08826	Not between -30°C and -20°C
BLOCK - O	Freezer	Room 12 08825	Not between -30°C and -20°C
BLOCK - O	100-007	Incubator	Not between 35°C and 39°C
BLOCK - O	100-CR-01	Cold-room	Not between 2°C and 8°C
BLOCK - O	100-CR-02	Cold-room	Not between 2°C and 8°C

BLOCK - Q	100-CR-03	Cold-room	Not between 2°C and 8°C
BLOCK - S	Coldroom-RVF	Coldroom - RVF	Not between 2°C and 8°C
BLOCK - S	Freezer-RVF	Freezer - RVF	Not between -25°C and -15°C
BLOCK - S	INC-RVF	INC - RVF	Not between 35°C and 39°C
BLOCK - S	Unassigned	BLOCK - S Mains Power	Off
BLOCK - Vaccines Packaging	103-ULF01	103 -ULF - 01	> -50°C
BLOCK - Vaccines Packaging	103-ULF02	103 - ULF - 02	> -50°C
BLOCK - Vaccines Packaging	Unassigned	BLOCK - (Need Name) Mains Power	Off
Block D & E Nitrogen Cabinets	103 - FN01	Temperature	> -70°C
Block D & E Nitrogen Cabinets	103 - FN02	Temperature	
Block D & E Nitrogen Cabinets	103 - FN03	Temperature	> -70°C
Block D & E Nitrogen Cabinets	103 - FN08	Temperature	
Block D & E Nitrogen Cabinets	CRYOPLUS 2	Temperature	> -80°C
Block D & E Nitrogen Cabinets	Unassigned	Block D&E RTU Power	Off
BLOCK J	Master Seed Antigens	-40 Temperature - Freezer not working	
BLOCK J	Seed Stock Antigens	-40 Temperature	Not between -50°C and -30°C
BLOCK J	Unassigned	Block J RTU PWR	Off
Boiler Generator	Unassigned	Fuel Level	Off
Boiler Generator	Unassigned	Genset	On
Boiler Generator	Unassigned	Mains	Off
Boiler House	Boiler 1	Pressure	
Boiler House	Boiler 2	Pressure	
Boiler House	Boiler 3	Pressure	
Boiler House	Boiler 4	Pressure	
Boiler House	Unassigned	Boiler Fuel Tank Level	
Boiler House	Unassigned	Boiler House RTU Power	
Coldroom NR2	Unassigned	Coldroom NR2 a1	
Coldroom NR2	Unassigned	Coldroom NR2 a2	
D & E Cold Room Generator	Unassigned	D&E Coldroom Gennie RTU Power	Off
D & E Cold Room Generator	Unassigned	Fuel Level	Low
D & E Cold Room Generator	Unassigned	Genset	On
D & E Cold Room Generator	Unassigned	Mains	Off

D & E Coldroom	Coldroom	F/Left	
D & E Coldroom	Coldroom	F/Right	
D & E Coldroom	Coldroom	R/Left	
D & E Coldroom	Coldroom	R/Right	
D & E Freeze Drier	Unassigned	Freeze Drier 615	
D & E Freeze Drier	Unassigned	Freeze Drier 618	
Distribution	Coldroom 1	Temperature	Not between 2°C and 8°C
Distribution	N2 Cabinet 511407-254	Temperature - Not working	
Distribution	N2 Cabinet 511407-255	Temperature	> -80°C
Distribution	Unassigned	Distribution RTU Power	
EA Generator	Chiller Return	Temperature	Not between 12°C and 26°C
EA Generator	Chiller Supply	Temperature	Not between 12°C and 26°C
EA Generator	Unassigned	EA Generator RTU Power	Off
EA Generator	Unassigned	Fuel Level	
EA Generator	Unassigned	Genset	
EA Generator	Unassigned	Mains	
EA HVAC Temperature	A1 EA Room	Tempature	Not between 12°C and 30°C
EA HVAC Temperature	A7 EA Room	Tempature	Not between 12°C and 30°C
EA HVAC Temperature	B1 EA Room	Tempature	Not between 12°C and 30°C
EA HVAC Temperature	B7 EA Room	Tempature	Not between 12°C and 30°C
EA HVAC Temperature	E14 EA Room	Tempature	Not between 12°C and 30°C
EA HVAC Temperature	E18 EA Room	Tempature	Not between 12°C and 30°C
EA HVAC Temperature	E8 EA Room	Tempature	Not between 12°C and 30°C
EA HVAC Temperature	Unassigned	EA HVAC RTU Power	Off
EA Relative Humidity	A1 Room	RH	
EA Relative Humidity	A7 Room	RH	
EA Relative Humidity	B1 Room	RH	
EA Relative Humidity	B7 Room	RH	
EA Relative Humidity	E14 Room	RH	
EA Relative Humidity	E18 Room	RH	
EA Relative Humidity	E8 Room	RH	
EA Relative Humidity	Unassigned	EA RH RTU Power	Off
EA Room Temp	EA Room 1	Temperature	
EA Room Temp	EA Room 10	Temperature	
EA Room Temp	EA Room 14	Temperature	
EA Room Temp	EA Room 25	Temperature	
EA Room Temp	EA Room 30	Temperature	
EA Room Temp	EA Room 5	Temperature	

EA Room Temp	Unassigned	EA Room Temp RTU Power	Off
Incubator 106-INC01	Unassigned	Incubator 106-INC01	
Main Generator	Unassigned	Fuel Level	
Main Generator	Unassigned	Genset	
Main Generator	Unassigned	Mains	
QC Coldroom - Inside	Unassigned	Cold Room Temp	Not between 0°C and 12°C
RAW MATERIALS	100-CR-04	100-CR-04	Not between 2°C and 8°C
RDB - K15	106-INC05	Temperature	Not between +35°C to +40°C
RDB - Corridor	106-INC01	Temperature	Not between +35°C to +40°C
RDB - K13	106-003	Temperature	Not between +35°C to +40°C
RDB - K13	106-0-05	Temperature	Not between +35°C to +40°C
RDB -	106-FS02	Temperature	Not between -10°C to -30°C
RDB - K14	106-FS03	Temperature	Not between -10°C to -30°C
RDB - K12B	106-FS05	Temperature	Not between -10°C to -30°C
RDB - K15	6525	Temperature	Not between -10°C to -30°C
RDB - K13	106-FS06-1	Temperature	Not between -10°C to -30°C
RDB -	106-FS06-2	Temperature	Not between +2°C to +8°C
RDB - K13	106-FS08-1	Temperature	Not between -10°C to -30°C
RDB -	106-FS08-2	Temperature	Not between +2°C to +8°C
RDB - K12A	6523	Temperature	Not between -10°C to -30°C
RDB - K12A	106-FS12	Temperature	Not between -10°C to -30°C
RDB - K12 Passage	6512	Temperature	Not between -10°C to -30°C
RDB - K12 Passage	106-FS10	Temperature	Not between -10°C to -30°C
RDB - K12A	106-FS09 (-40)	Temperature	Not between -35°C to -40°C
RDB - K12A	Ultra low freezer 106-FS11	Temperature	Not between -69°C to -80°C
RDB - K12	106-CR01	Temperature	Not between +2°C to +8°C
RDB - K12	106-CR02	Temperature	Not between +2°C to +8°C
RDB - K13	106-CR03	Temperature	Not between +2°C to +8°C
RDB - K14	106-CR04	Temperature	Not between +2°C to +8°C
RDB - K15	106-CR05	Temperature	Not between +2°C to +8°C
RDB - Block Q	106-CR06	Temperature	Not between +2°C to +8°C
RDB - Block Q	106-CR07	Temperature	Not between +2°C to +8°C
RDB - Block D & E Nitrogen Cabinets	CRYOPLUS 2	Temperature	> -80°C
Block I	Server Room	Mains Power	On/Off
Block I	Server Room	Temperature	Not between +16°C to +22°C (TBC)

## DECLARATION OF INTEREST SBD 4

1. Any legal person, including persons employed by the state<sup>1</sup>, or persons having a kinship with persons employed by the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid (includes a price quotation, advertised competitive bid, limited bid or proposal). In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons employed by the state, or to persons connected with or related to them, it is required that the bidder or his/her authorised representative declare his/her position in relation to the evaluating/adjudicating authority where-

- the bidder is employed by the state; and/or
- the legal person on whose behalf the bidding document is signed, has a relationship with persons/a person who are/is involved in the evaluation and or adjudication of the bid(s), or where it is known that such a relationship exists between the person or persons for or on whose behalf the declarant acts and persons who are involved with the evaluation and or adjudication of the bid.

**2. To give effect to the above, the following questionnaire must be completed and submitted with the bid.**

2.1 Full Name of bidder or his or her representative:  
.....

2.2 Identity Number: .....

2.3 Position occupied in the Company (director, trustee, shareholder<sup>2</sup>):  
.....

2.4 Company Registration Number:  
.....

2.5 Tax Reference Number: .....

2.6 VAT Registration Number: .....

2.6.1 The names of all directors / trustees / shareholders / members, their individual identity numbers, tax reference numbers and, if applicable, employee / perusal numbers must be indicated in paragraph 3 below.

<sup>1</sup> "State" means (a) any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No. 1 of 1999);  
(b) any municipality or municipal entity.  
(c) provincial legislature.  
(d) national Assembly or the national Council of provinces; or  
(e) Parliament.

<sup>2</sup> "Shareholder" means a person who owns shares in the company and is actively involved in the management of the enterprise or business and exercises control over the enterprise.



2.7 Are you or any person connected with the bidder presently employed by the state? **YES / NO**

2.7.1 If so, furnish the following particulars:

Name of person / director / trustee / shareholder/ member:

.....  
Name of state institution at which you or the person:

.....  
connected to the bidder is employed

.....  
Position occupied in the state institution:

.....  
Any other particulars:

.....  
.....  
.....

2.7.2 If you are presently employed by the state, did you obtain the appropriate authority to undertake remunerative work outside employment in the public sector? **YES / NO**

2.7.2.1 If yes, did you attach proof of such authority to the bid document? **YES / NO**

(Note: Failure to submit proof of such authority, where applicable, may result in the disqualification of the bid.)

2.7.2.2 If no, furnish reasons for non-submission of such proof:

.....  
.....  
.....

2.8 Did you or your spouse, or any of the company's directors / trustees / shareholders / members or their spouses conduct business with the state in the previous twelve months? **YES / NO**

2.8.1 If so, furnish particulars:

.....  
.....  
.....

2.9 Do you, or any person connected with the bidder, have any relationship (family, friend, other) with a person employed by the state and who may be involved with the evaluation and or adjudication of this bid? **YES / NO**  
2.9.1 If so, furnish particulars.

.....  
.....

2.10 Are you, or any person connected with the bidder, **YES/NO**  
 aware of any relationship (family, friend, other) between any other bidder and any person  
 employed by the state who may be involved with the evaluation and or adjudication of this bid?

2.10.1 If so, furnish particulars.

.....  
 .....  
 .....

2.11 Do you or any of the directors / trustees / shareholders / members **YES/NO**  
 of the company have any interest in any other related companies whether they are bidding for  
 this contract?

2.11.1 If so, furnish particulars:

.....  
 .....  
 .....

**3 Full details of directors / trustees / members / shareholders.**

Full Name	Identity Number	Personal Reference Number	Tax	State Employee Number / Perusal Number

**4 DECLARATION**

I, THE UNDERSIGNED (NAME).....

CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 23 OF THE GENERAL CONDITIONS OF CONTRACT SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....  
Signature

.....  
Date

.....  
Position

.....  
Name of bidder

**Terms and Conditions:**

- Submission should be no later than **(29<sup>th</sup> September 2021, 15H00)**
- Please indicate your offer validity and lead time: .....
- All prices must be VAT exclusive, if no indication, prices will be evaluated as exclusive
- Quotation must be on a company letter head and **strictly** on a PDF format
- Quotations sent on Word or Excel format will not be accepted**
- Quotations must be emailed back to: [purchasing@obpvaccines.co.za](mailto:purchasing@obpvaccines.co.za)**
- If no reply after 14 days of closing date your RFQ was unsuccessfully**
- Orders above 30K will be BEE evaluated
- Please indicate if you are unable to quote and state the reason why
- Please note that fluctuations in the exchange rate (where applicable) will not be for the account of OBP.
- Payment terms: 30 days after statement

*I agree that the offer herein shall remain binding upon me and open for acceptance by OBP during the validity period indicated.*

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date