## Specifications of equipment for storage of fruit and berries in controlled atmosphere at Bioforsk

Description of the acquirement.

Bioforsk Ullensvang performs research in cultivation and storage of fruit. Equipment for storage of fruit and berries in different gas mixtures (O2 and CO2) will be purchased. The equipment must be appropriate for scientific studies of the impact of storage conditions on storability and quality of fruit and berries. The equipment must be flexible with regard to size of storage containers, control of gas mixtures, as well as monitoring of these and other relevant environmental conditions.

The delivery shall include complete equipment fitted with guaranteed functionally in the laboratory at Bioforsk Ullensvang. The containers will be placed in existing cold rooms and the control system will be located in the adjacent control room. In addition training in the use of the equipment must be given. Equipment must provide stable deliveries over time while different control parameters can easily be changed.

Specifications	Requirements	Yes/No	Note (reference to appendix)	Price (excl VAT)
9 pcs storage chambers, size customized for 3 pcs 6416 IFCO RPCs (about I * b * h 65 * 45 * 50 cm)	Minimum			
16 storage chambers of 2 - 5 L.	Minimum			
4 additional storage chambers of 2 - 5 L.	Desirable			
Control system for supply of at least 4 different gas mixtures with defined O2 and CO2 content in at least 25 separate chambers. Automatic calibration, monitoring and recording of the atmosphere in each chamber in the area O2: 0 - 25%, CO2: 0 -20% (0.1% resolution)	Minimum			
Monitoring of ethylene in the storage atmosphere with portable measuring equipment. Detection limit <0.1 ppm, accuracy 2%	Desirable			
Nitrogen generator w/ buffer tank. $\leq$ 1% $O_2$ in gas.	Minimum			
Electricity supply 230V, 1 phase, 50Hz and electrical current 13A	Minimum			

## Appendix A 2013/529

Control and monitoring data available via internet or mobile phone	Desirable					
Options or elective options (B						
Service agreement	Desirable					
When service agreement is available, price should be quoted for 1 year and for additional years	Inform about					
Introduction to the	IIIIOIIII about					
customer's maintenance possibilities and duties	Minimum					
Guarantee, if different guarantee apply to different items, please specify	Minimum					
Time of delivery from ordering date	Minimum					
Information on service options	Minimum					
References to be given as per appendix C. Please state the three most relevant references during the last 5 years	Minimum					
Total price for the delivery (excluded optional elements)						
Total price of equipment			storial distributory			
*Compliance with demands must be documented.						